

## Product Portfolio 2020

### Pumps | Automation



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## Our tradition:

# Competence since 1871

We have supplied generations of customers worldwide with pumps, valves, automation products and services. A company with that kind of experience knows that success is a process based on a stream of innovations. A process made possible by a close working alliance between developer and user, between production and practice.

Partners achieve more together.

We do everything possible to ensure that our customers always have access to the ideal product and system solution.

KSB is a loyal partner:

- Over 147 years' experience
- Present in more than 100 countries
- More than 15,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists





## Smart services for maximum availability and efficiency

As a leading supplier of pumps and valves, we attach great importance to providing you with a comprehensive service of the highest quality. In fact, we believe it's so important that we even gave it a special name: KSB SupremeServ.

KSB SupremeServ is on hand to support you with classic and digital service and spare parts solutions over the entire product life cycle. Whether it's a KSB product, non-KSB product or other rotating equipment, you'll benefit from the reliable and sustainable operation of your system.

Applications:

- Water and Waste Water
- Energy
- Mining
- Industry
- Building Services

Wherever and whenever you need us, we're there for you – worldwide.

[www.ksb.com](http://www.ksb.com)

**KSB SupremeServ**



## Our mission:

# Certified quality assurance

First-class products and excellent service take top priority at KSB. To maintain this level of excellence, we have developed a modern quality management system with globally applicable guidelines. It is based on the Business Excellence model of the European Foundation for Quality Management, which already ensures improved quality management Europe-wide.

Our guidelines define uniform quality for all KSB locations and have helped us to optimise our manufacturing processes. The results are shorter delivery times and global availability of our products. These guidelines govern the way we act so comprehensively that even the competence of our consulting and the good value for money we offer are clearly stipulated. Like the 'Made in Germany' quality seal, we introduced internal certification as a sign of the highest quality: 'Made by KSB'.

### Our five key goals:

- **Maximum customer satisfaction:** We do everything to fulfil our customers' wishes on time and in full.
- **Fostering quality awareness:** We put our quality commitment into daily practice – from executives to employees, whose qualifications and competence we foster through continuing training.
- **Prevention rather than cure:** We systematically analyse errors and prevent the causes.
- **Improvement in quality:** We continually optimise our processes in order to work more efficiently.
- **Involvement of suppliers:** We attach great importance to working together fairly and openly to achieve our shared goals.



As a signatory to the United Nations Global Compact, KSB is committed to endorsing the ten principles of the international community in the areas of human rights, labour standards, environmental protection and anti-corruption.





## Industry 4.0: we have experience with the future

Digital networking of production systems is one of the key challenges ahead. An expert in engineering with long-standing experience in developing Industry 4.0 solutions, KSB is your ideal partner to achieve:

- Resource efficiency and optimised use of materials
- Availability and operating reliability
- Flexibility through short-term reconfigurability
- Reduction of time to market

Increase your system's productivity already today with KSB's smart products and services: Use our intelligent technologies designed to communicate, such as PumpDrive and PumpMeter, to lay a foundation for your smart factory. Find out more about our future-driven solutions at [www.ksb.com/industry40](http://www.ksb.com/industry40)

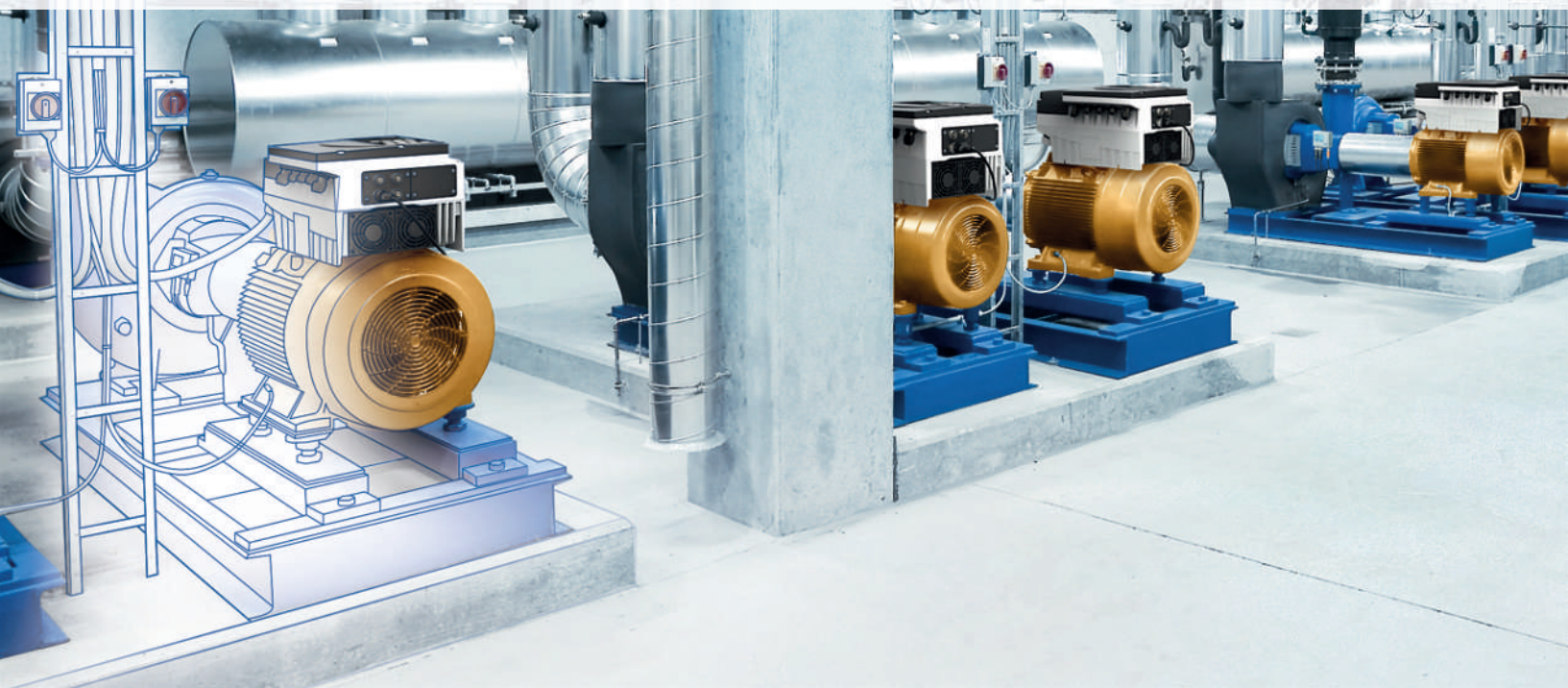
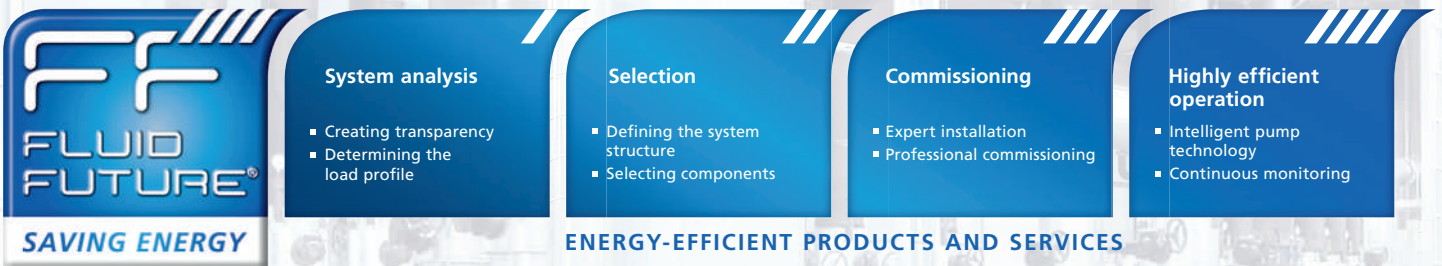
## FluidFuture®: the energy-saving concept for your system

Many systems do run reliably but they also use a lot more power than necessary. The solution: efficiency optimisation with FluidFuture® in four steps. We look at the entire hydraulic system to achieve maximum energy efficiency throughout the life cycle. The optimisation costs will pay for themselves within a short period through the high energy savings that can be made.

The process and its four steps are clearly defined – based on extensive expertise and experience. This systematic and targeted approach ensures maximum savings at minimum costs. Perfectly matching the hydraulic system, drive and automation products as well as the piping dimensions can result in savings of up to 60 %.

We reduce the operating costs of your system by combining our expert knowledge with smart products and services. This is our joint contribution towards an energy-efficient future.

More on FluidFuture®:  
[www.ksb.com/fluidfuture](http://www.ksb.com/fluidfuture)



## General Information

<p><b>ErP</b></p>	 <p>ErP regulations stipulating new, stricter minimum efficiency values became effective at the start of 2015. Since then, only pumps and motors which satisfy the energy efficiency requirements of the European Union's ErP Directive may be placed on the market. For KSB's products this is child's play. They are so efficient, many actually exceed the values required since 2015 – some even those applicable from 2017 as per the ErP regulations.</p>
<p><b>Regional products</b></p>	<p>Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.</p>
<p><b>Trademark rights</b></p>	<p>All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE &amp; Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.</p>
<p><b>Product illustrations</b></p>	<p>The products illustrated as examples may include options and accessories incurring a surcharge. Subject to modifications due to technical enhancements.</p>
<p><b>Product information</b></p>	<p>For information as per chemicals Regulation (EC) No 1907/2006 (REACH), see <a href="http://www.ksb.com/reach">www.ksb.com/reach</a>.</p>



## Pumps

Design / Application	Type series	Page	ErP	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Drinking water circulators, fixed speed	Calio-Therm S NC/NCV	30							■	
	Calio-Therm NC	30							■	
Drinking water circulators, variable speed	Calio-Therm S	30		■					■	
Circulators, variable speed	Calio S	30	■	■					■	
	Calio	31	■	■					■	
	Calio Z	31	■	■					■	
In-line pumps	Etaline L	31	■		■		■		■	
	Etaline DL	31	■		■		■		■	
	Etaline	32	■		■		■		■	
	Etaline Z	32	■		■		■		■	
	Etaline-R	32	■		■		■		■	
	ILN	32	■		■	■	■		■	
	ILNC	33	■		■	■	■		■	
	Megaline	33	■		■	■	■		■	
Standardised / close-coupled pumps	Etanorm	33	■		■	■	■	■	■	
	Etanorm-R	33	■		■	■	■	■	■	
	Etabloc	34	■		■	■	■	■	■	
	Etachrom B	34	■		■	■	■	■	■	
	Etachrom L	34	■		■	■	■	■	■	
	Etanorm V	34				■	■	■	■	
	Meganorm	35	■		■	■	■	■	■	
	Megabloc	35	■		■	■	■	■	■	
Hot water pumps	HPK-L	35			■		■	■	■	
	HPH	35			■		■	■	■	
	HPK	35			■		■	■	■	
Hot water / thermal oil pumps	Etanorm SYT / RSY	36			■		■		■	
	Etabloc SYT	36			■		■		■	
	Etaline SYT	36			■		■		■	
Standardised chemical pumps	MegaCPK	36			■		■	■		
	CPKN	37			■		■	■		
Seal-less pumps	Magnochem	38			■		■	■		
	Magnochem 685	38			■		■	■		
	Magnochem-Bloc	38			■		■	■		
	Etaseco / Etaseco-I	38			■	■	■	■	■	
	Etaseco RVP	38			■	■	■	■	■	
Process pumps	RPH	39					■	■		
	RPH-LF	39					■			
	RPHb / RPHd	39					■	■		
	RPH-V	39					■	■		
	CTN	39					■			
	CHTR	40					■	■		
	CHTRa	40				■	■	■		
	CINCP / CINCN	40					■	■		
	INVCP	40				■	■	■		
	Estigia	40				■	■	■		
	RWCP / RWCN	41				■	■	■		
WKTR	41					■				
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	42		■		■			■	
	Hya-Rain Eco	42		■		■			■	

Design / Application	Type series	Page	ErP	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Domestic water supply systems with automatic control unit / swimming pool pumps	Multi Eco	42			■	■			■	
	Multi Eco-Pro	42		■		■				
	Multi Eco-Top	43		■		■			■	
	Ixo N	43			■	■			■	
	Ixo-Pro	43		■		■			■	
	Filtra N	43							■	
Pressure booster systems	KSB Delta Macro F/VC/SVP	43		■		■	■		■	
	KSB Delta Solo/Basic Compact MVP	44		■		■			■	
	KSB Delta Basic MVP/SVP	44		■		■	■		■	
	KSB Delta Primo F/VC/SVP	44		■		■	■		■	
	KSB Delta Solo MVP/SVP	44		■		■	■		■	
	Hya-Solo D	44		■		■	■		■	
	Hya-Solo DSV	45		■		■	■		■	
	Hya-Solo D FL	45		■			■		■	
	Hya-Duo D FL	45		■			■		■	
	Hya-Solo D FL Compact	45		■			■		■	
	Hya-Duo D FL Compact	45		■			■		■	
	Hyamat K	46		■		■	■		■	
	Hyamat V	46		■		■	■		■	
	Hyamat SVP	46		■		■	■		■	
	Hyamat SVP ECO	46		■		■	■		■	
	Surpresschrom SIC.2	46		■		■	■		■	
	Surpresschrom SIC.2 V	47		■		■	■		■	
	Surpresschrom SIC.2 SVP	47		■		■	■		■	
Surpress Feu SFE	47		■			■		■		
Drainage pumps / waste water pumps	Ama-Drainer N	47			■				■	
	Ama-Drainer 4.. / 5..	47			■		■		■	
	Ama-Drainer 80, 100	48			■				■	
	Ama-Porter F / S	48			■				■	
	Rotex	48					■		■	
	MK / MKY	48			■		■		■	
Lifting units / package pump stations	Amaclean	48				■			■	
	Ama-Drainer-Box Mini	49		■					■	
	Ama-Drainer-Box	49		■					■	
	Evamatic-Box N	49							■	
	mini-Compacta	49		■					■	
	Compacta	49		■			■		■	
	CK 800 Pump Station	50		■		■	■		■	
	CK 1000 Pump Station	50		■		■	■		■	
	Ama-Porter CK Pump Station	50		■		■			■	
	SRP	50			■	■			■	
	SRL	50				■			■	
	SRS	51			■	■			■	
Submersible motor pumps	Amarex	52			■	■	■		■	
	Amarex N	52			■	■	■		■	
	Amarex KRT	52			■	■	■		■	
Submersible pumps in discharge tubes	Amacan K	52			■	■			■	
	Amacan P	53			■	■			■	
	Amacan S	53			■	■			■	
Mixers / agitators / tank cleaning units	Amamix	54				■	■		■	
	Amaprop	54				■	■		■	
	Amaline	54				■	■		■	

Design / Application	Type series	Page	ErP	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Pumps for solids-laden fluids	Sewatec	55			■	■	■			
	Sewatec SPN	55				■	■			
	Sewabloc	55			■	■	■			
	KWP	55			■	■	■	■		■
	KWP-Bloc	55			■	■	■	■		■
Slurry pumps	WBC	56								■
	LSA-S	56					■	■		■
	LCC-M	56					■	■		■
	LCC-R	56					■	■		■
	TBC	56								■
	LCV	57								■
	FGD	57					■	■		■
	MHD	57								■
	LHD	57								■
	MDX	57					■			■
	ZW	58								■
	HVF	58					■			■
Self-priming pumps	Etaprime L	59				■	■			
	Etaprime B	59				■	■			
	EZ B/L	59				■	■	■	■	
	AU	59				■	■			
	AU Monobloc	59				■	■			
Submersible borehole pumps	UPAchrom 100 CC	60	■		■	■	■		■	
	UPAchrom 100 CN	60	■		■	■	■		■	
	UPA 150C	60	■		■	■	■		■	
	UPA 200, 200B, 250C	60			■	■	■			
	UPA 300, 350	60			■	■	■			
	UPA 400-850	61			■	■	■			
	UPA D	61			■	■	■			
Vertical turbine pumps	B Pump	61				■	■	■		
High-pressure pumps	Comeo	62			■	■	■		■	
	Movitec H(S)	62	■		■	■	■	■	■	
	Movitec	62	■		■	■	■	■	■	
	Movitec VCI	62	■		■	■	■			
	Multitec	63			■	■	■	■	■	■
Axially split pumps	Omega	63			■	■	■	■	■	
	RDLO	63			■	■	■	■	■	
	RDLP	63			■	■				
Hygienic pumps for the food, beverage and pharmaceutical industries	Vitachrom	64			■	■	■			
	Vitacast	64			■	■	■			
	Vitacast Bloc	64			■	■	■			
	Vitaprime	64			■		■			
	Vitastage	65			■	■	■			
	Vitalobe	65			■		■			

Design / Application	Type series	Page	ErP	Factory-automated	Automation available	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	
Pumps for power station conventional islands	CHTA / CHTC / CHTD	65						■			
	HGB / HGC / HGD	65					■	■			
	HGI	66					■	■			
	HGM	66			■		■	■			
	YNK	66						■			
	LUV / LUVA	66						■			
	WKTb	66						■			
	SEZ	67				■	■	■			
	SEZT	67				■	■	■			
	PHZ	67				■	■	■			
	PNZ	67				■	■	■			
	SNW	67				■	■	■			
	PNW	68				■	■	■			
	Beveron	68				■	■	■			
	SPY	68				■	■	■			
	Pumps for nuclear power stations	RER	68						■		
		RSR	68						■		
RUV		69						■			
PSR		69						■			
RHD		69						■			
LUV Nuclear		69						■			
RHM		69						■			
RVM		70						■			
RHR		70						■			
RVR		70						■			
RVT	70						■				
Pumps for desalination by reverse osmosis	RPH-RO	70				■					
	HGM-RO	71				■					
	Multitec-RO	71			■	■	■				
Positive displacement pumps	RC / RCV	71					■				
Fire-fighting systems	EDS	71		■		■	■		■		
	DU / EU	72		■		■	■		■		

## Automation and drives

Design / Application	Type series	Page	ErP	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Automation and drives	KSB SuPremE	28	■	■	■		■	
	KSB UMA-S	28		■	■			
Control units	Controlmatic E	73		■			■	
	Controlmatic E.2	73		■			■	
	Cervomatic EDP.2	73		■			■	
	LevelControl Basic 2	73		■	■		■	
	UPA Control	73		■			■	
	Hyatronic N	74		■	■		■	
Variable speed systems	PumpDrive 2 / PumpDrive 2 Eco	28		■	■		■	
	PumpDrive R	28		■	■		■	
Monitoring and diagnosis	PumpMeter	29		■	■		■	
	KSB Guard	29		■	■	■	■	
	Amacontrol II	74		■	■			
	Amacontrol III	74		■	■			













## Fluids handled

	UPAchrom 100 CC UPAchrom 100 CN UPA 150 C UPA 200, 200B, 250C UPA 300, 350 UPA 400-850 UPA D	B Pump	Comeo Movitec H(S) Movitec Movitec VCI Multitec	Omega RDLO RDLP	Vitachrom Vitacast/Vitacast Bloc Vitaprime Vitagstage Vitalobe	CHTA / CHTC / CHTD HGB / HGC / HGD HGI HGM YNK LUV / LUVA WKTB
Waste water with faeces						
Waste water without faeces						
Aggressive liquids						
Inorganic liquids						
Activated sludge						
Brackish water						
Service water	■	■		■		
Distillate	■			■		
Slurries	■			■		
Explosive liquids						
Digested sludge						
Solids (ore, sand, gravel, ash)						
Flammable liquids						
River, lake and groundwater	■	■		■		
Liquefied gas						
Food and beverage production					■	
Gas-containing liquids						
Gas turbine fuels						■
Filtered water						
Geothermal water						
Harmful liquids						
Toxic liquids						
High-temperature hot water			■	■		■
Heating water				■		■
Highly aggressive liquids						
Industrial service water	■	■	■	■		■
Condensate			■	■		■
Corrosive liquids						
Valuable liquids						
Fuels						
Coolants						
Cooling lubricant						
Cooling water	■	■	■	■		
Volatile liquids						
Fire-fighting water	■	■	■	■		
Solvents						
Seawater		■		■		
Oils						
Organic liquids						
Pharmaceutical fluids					■	
Polymerising liquids					■	
Rainwater / stormwater						
Cleaning agents						
Raw sludge						
Lubricants						
Grey water						
Swimming pool water						
Brine						■
Feed water						■
Dipping paints						■
Drinking water	■	■	■	■	■	■
Thermal oil						
Hot water				■		
Wash water	■	■	■	■		



















## Drive, variable speed system and monitoring

### KSB SuPremE



Number of pumps  $\leq 1$   
U [V]  
Power supply via PumpDrive / PumpDrive R only

**Description**  
IEC-compatible sensorless magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4 / IE5 (super/ultra premium efficiency) to IEC TS 60034-30-2:2016 for operation on a KSB PumpDrive 2, PumpDrive 2 Eco or PumpDrive R variable speed system. Suitable for connection to three-phase 380 - 480 V power supply (via PumpDrive). The motor mounting points comply with EN 50347 specifications to ensure compatibility with standardised IEC frame motor applications and full interchangeability with IE2 or IE3 standardised asynchronous motors. Envelope dimensions lie within the limits for IE2 / IE3 motors as recommended in DIN V 42673 (07-2011). The motor is controlled without rotor position sensors. The efficiency of the motor also exceeds 95 percent of nominal efficiency when the motor runs at 25 percent of its nominal power on a quadratic torque-speed curve. The motor is magnetless which means that so-called rare earths are not used in production. Drive production is thus sustainable and environmentally friendly.

**Applications**

For use with dry-installed variable speed pumps which can be driven by standardised foot-mounted and/or flange-mounted motors.



<http://shop.ksb.com/catalog/k0/en/product/ES000866>

### KSB UMA-S



Number of pumps  $\leq 1$   
U [V] 3-400  
Other mains voltages on request

**Description**  
Permanent-magnet submersible synchronous motor, for operation on a KSB PumpDrive R variable speed system. NEMA connections and identical outside diameters ensure full interchangeability with comparable 6-inch or 8-inch asynchronous motors. The motor is controlled without rotor position sensors. The motor efficiency is 5 - 12 % above that of asynchronous motors. Given the design and functionality the use of permanent magnets is essential.

**Applications**

Exclusively for submersible borehole pumps in the range of 4 to 150 kW.



<http://shop.ksb.com/catalog/k0/en/product/ES000003>

### PumpDrive 2 / PumpDrive 2 Eco



Number of pumps  $\leq 6$   
P [kW] 55  
U [V] 3-380 - 480  
Frequency inverter 1 per motor

**Description**  
Modular self-cooling frequency inverter that enables continuously variable speed control of asynchronous and synchronous reluctance motors by means of analog standard signals, a field bus or the control panel. As PumpDrive is self-cooling, it can be mounted on a motor, on the wall or in a control cabinet. Up to six pumps can be controlled without needing an additional controller.

**Applications**

Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport



<http://shop.ksb.com/catalog/k0/en/product/ES000911>

### PumpDrive R



Number of pumps  $\leq 6$   
P [kW] 55  
U [V] 3-380 - 480  
Frequency inverter 1 per motor

**Description**  
Frequency inverter for wall mounting or cabinet mounting. For variable speed control or other control functions of asynchronous motors, synchronous reluctance motors like KSB SuPremE or permanent magnet synchronous motors. PumpDrive R extends the power range of KSB PumpDrive up to a rated power of 110 kW as standard or up to 1.4 MW (on request).

**Applications**

Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport



<http://shop.ksb.com/catalog/k0/en/product/ES000898>

## PumpMeter



Number of pumps ≤ 1  
U [V DC] 24

### Description

Device for monitoring the operation of one pump. It is an intelligent pressure transmitter for pumps, with on-site display of measured values and operating data. It records the load profile of the pump in order to indicate any potential for optimising energy efficiency and availability. The device comprises two pressure sensors and a display unit. PumpMeter is supplied completely assembled and parameterised for the pump it is used with. It is ready for operation as soon as the M12 plug connector is plugged in.

### Applications

Air-conditioning systems, cooling circuits, cooling lubricant distribution, heating systems, water treatment plants, water supply systems, water distribution systems, water transport systems, water extraction systems



<http://shop.ksb.com/catalog/k0/en/product/ES000807>

## KSB Guard



Number of pumps ≤ 20 (per gateway)  
U [V AC] 110 - 240  
(gateway)  
U [V DC] 2 x 1,5 (sensor)

### Description

System for monitoring the condition of pumps: Sensors on the pump record vibration and temperature data, which is processed in the KSB Cloud. Information on the pump's condition can then be accessed using the KSB Guard app or through the web portal. Easy to retrofit on pumps during operation.

### Applications

For monitoring dry-installed pumps, optimising maintenance and improving system availability



<http://shop.ksb.com/catalog/k0/en/product/ES000938>

## Drinking water circulators, fixed speed

### Calio-Therm S NC/NCV



Rp	1/2 - 3/4
Q [m³/h]	≤ 0,7
H [m]	≤ 1
p [bar]	≤ 10
T [°C]	≥ +5 - ≤ +60

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Maintenance-free high-efficiency glandless drinking water circulator pump, screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems.

**Applications**  
Drinking water circulation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000918>

### Calio-Therm NC



Rp	3/4 - 1
Q [m³/h]	≤ 9
H [m]	≤ 7
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +65
n [rpm]	≤ 2800

Data for 50 Hz operation

**Description**  
Maintenance-free fixed speed glandless drinking water circulator pump, screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems and hot water supply systems.

**Applications**  
Drinking water supply systems, hot water supply systems and similar systems in industry and building services (e.g. cooling water recirculation)



<http://shop.ksb.com/catalog/k0/en/product/ES000928>

## Drinking water circulators, variable speed

### Calio-Therm S



Rp	1
Q [m³/h]	≤ 3,5
H [m]	≤ 6
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +65
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Maintenance-free high-efficiency variable speed glandless drinking water circulator pump, screw-ended, electric motor and continuously variable differential pressure control for use in drinking water supply systems and hot water supply systems.

**Applications**  
Hot water supply, drinking water circulation systems and similar systems in industry and building services (e.g. cooling water recirculation).



<http://shop.ksb.com/catalog/k0/en/product/ES000882>

## Circulators, variable speed

### Calio S



Rp	1/2 - 1 1/4
Q [m³/h]	≤ 3,5
H [m]	≤ 6
p [bar]	≤ 10
T [°C]	≥ +2 - ≤ +95
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Maintenance-free high-efficiency screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

**Applications**  
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000910>

## Calio



Rp	1 1/2 - 2
DN	32 - 100
Q [m³/h]	≤ 51
H [m]	≤ 18
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110
n [rpm]	≤ 4500

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

**Applications**  
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000881>

## Calio Z



Rp	1 1/4
DN	32 - 65
Q [m³/h]	≤ 70
H [m]	≤ 18
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +110
n [rpm]	≤ 4500

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Maintenance-free high-efficiency flanged or screw-ended glandless pump in twin pump design with high-efficiency electric motor and continuously variable differential pressure control.

**Applications**  
Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000913>

## In-line pumps

## Etaline L



Rp	1 - 1 1/4
DN	32 - 80
Q [m³/h]	≤ 95
H [m]	≤ 21
p [bar]	≤ 10
T [°C]	≥ -15 - ≤ +120

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Single-stage close-coupled in-line volute casing pump, with PumpDrive variable speed system and common motor/pump shaft

**Applications**  
Heating systems, air-conditioning systems, cooling circuits, water supply systems (not approved for drinking water according to the German Environment Agency), service water supply systems, industrial recirculation systems, swimming pools



<http://shop.ksb.com/catalog/k0/en/product/ES000925>

## Etaline DL



Rp	1 1/4
DN	32 - 80
Q [m³/h]	≤ 150
H [m]	≤ 21
p [bar]	≤ 10
T [°C]	≥ -15 - ≤ +120

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Single-stage close-coupled in-line volute casing pump as twin pump, with PumpDrive variable speed system and common motor/pump shaft

**Applications**  
Heating systems, air-conditioning systems, cooling circuits, water supply systems (not approved for drinking water according to the German Environment Agency), service water supply systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000926>

## Etaline



DN	32 - 200
Q [m <sup>3</sup> /h]	≤ 700
H [m]	≤ 96
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

### Applications

Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000113>

## Etaline Z



DN	32 - 200
Q [m <sup>3</sup> /h]	≤ 1095
H [m]	≤ 38,5
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Single-stage volute casing pump in in-line design as twin pump, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. An M12 module (accessory) enables redundant operation of Etaline Z without the need for a higher-level controller. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

### Applications

Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000114>

## Etaline-R



DN	150 - 350
Q [m <sup>3</sup> /h]	≤ 1900
H [m]	≤ 93
p [bar]	≤ 25
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical close-coupled in-line pump with volute casing and magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system.

### Applications

Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems, industrial recirculation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000812>

## ILN



DN	65 - 400
Q [m <sup>3</sup> /h]	≤ 3100
H [m]	≤ 112
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +70
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical in-line centrifugal pump with closed impeller and mechanical seal. ILNS fitted with an auxiliary vacuum pump, ILNE with ejector. Back pull-out design allows the impeller to be dismantled without removing the piping and the motor. ATEX-compliant version available.

### Applications

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems



● Control unit

<http://shop.ksb.com/catalog/k0/en/product/ES000730>



## ILNC



DN	32 - 125
Q [m³/h]	≤ 370
H [m]	≤ 112
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +70
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Vertical close-coupled centrifugal pump in in-line design, with electric motor, closed impeller and mechanical seal. ILNCS fitted with an auxiliary vacuum pump, ILNCE with ejector. Standardised IEC frame motor. ATEX-compliant version available.

**Applications**

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems



Control unit

<http://shop.ksb.com/catalog/k0/en/product/ES000731>

## Megaline



DN	32 - 200
Q [m³/h]	≤ 600
H [m]	≤ 135
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +90

Data for 60 Hz operation

**Description**

Volute casing pump for horizontal or vertical installation, in back pull-out design, single-stage, radially split volute casing, replaceable casing wear rings. Volute casing in in-line design with closed radial impeller, with multiply curved vanes, single mechanical seal to EN 12756.

**Applications**

Heating circuits, water supply systems, air-conditioning systems, waste water, industrial recirculation systems



<http://www.ksb.com.br/ksb-br-pt/pesquisa.php?q=megaline>

## Standardised / close-coupled pumps

## Etanorm



DN	25 - 150
Q [m³/h]	≤ 640
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Horizontal volute casing pump, single-stage, with ratings and main dimensions to EN 733, long-coupled, back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

**Applications**

Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling water circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000062>

## Etanorm-R



DN	125 - 300
Q [m³/h]	≤ 1900
H [m]	≤ 101
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Horizontal long-coupled single-stage (two-stage for pump size 125-500) volute casing pump in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.

**Applications**

Water supply systems, spray irrigation systems, drainage systems, air-conditioning systems, fire-fighting systems, general irrigation systems, heating systems



<http://shop.ksb.com/catalog/k0/en/product/ES000058>

## Etabloc



DN	25 - 150
Q [m³/h]	≤ 660
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Single-stage close-coupled volute casing pump, with ratings to EN 733, with replaceable shaft sleeve and casing wear rings, with motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

### Applications

Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems



<http://shop.ksb.com/catalog/k0/en/product/ES000107>

## Etachrom B



DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal single-stage close-coupled circular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

### Applications

Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, general irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment



<http://shop.ksb.com/catalog/k0/en/product/ES000066>

## Etachrom L



DN	25 - 80
Q [m³/h]	≤ 260
H [m]	≤ 105
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal single-stage circular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

### Applications

Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, general irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment



<http://shop.ksb.com/catalog/k0/en/product/ES000065>

## Etanorm V



DN	32 - 150
Q [m³/h]	≤ 625
H [m]	≤ 100
p [bar]	≤ 16
T [°C]	≥ -15 - ≤ +95

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Single-stage volute casing pump for vertical installation in closed tanks under atmospheric pressure, with ratings to EN 733. Suitable for immersion depths of up to 2000 mm.

### Applications

Phosphating solutions, lubricating oil supply and sealing oil supply for turbines, generators, large compressors, large gear units



<http://shop.ksb.com/catalog/k0/en/product/ES000015>

## Meganorm



DN	25 - 200
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858/ISO 5199. Available with cylindrical or conical shaft seal chamber.

### Applications

Water supply systems, dewatering systems, irrigation systems, sugar industry, alcohol industry, air-conditioning systems, building services systems, fire-fighting systems



<http://www.ksb.com.br/ksb-br-pt/pesquisa.php?q=Meganorm>

## Megabloc



DN	25 - 160
Q [m³/h]	≤ 550
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +90

Data for 60 Hz operation

### Description

Volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, radially split volute casing, flanged or screw-ended (optional), replaceable casing wear rings. Volute casing with closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756.

### Applications

Water supply systems, irrigation systems, air-conditioning systems, building services systems, hotels, shopping centres, etc., fire-fighting systems, cooling circuits, general industry



<http://www.ksb.com.br/ksb-br-pt/pesquisa.php?q=Megabloc>

## Hot water pumps

### HPK-L



DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -40 - ≤ +400

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal radially split volute casing pump in back pull-out design to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Equipped with heat barrier, seal chamber air-cooled by integrated fan impeller, no external cooling. ATEX-compliant version available.

### Applications

Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems



<http://shop.ksb.com/catalog/k0/en/product/E5000036>

### HPK



DN	150 - 400
Q [m³/h]	≤ 4150
H [m]	≤ 185
p [bar]	≤ 40
T [°C]	≥ 0 - ≤ +400

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant version available.

### Applications

Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems



<http://shop.ksb.com/catalog/k0/en/product/E5000034>

### HPH



DN	40 - 350
Q [m³/h]	≤ 2350
H [m]	≤ 225
p [bar]	≤ 110
T [°C]	≥ 0 - ≤ +320

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Horizontal radially split volute casing pump in back pull-out design, with centreline pump feet, with radial impeller, single-entry, single-stage. Optional TRD type testing by TÜV. ATEX-compliant version available.

### Applications

Pumping hot water in high-pressure hot water generation plants, as boiler feed or recirculation pump.



<http://shop.ksb.com/catalog/k0/en/product/E5000037>

## Hot water / thermal oil pumps

### Etanorm SYT / RSY



DN	25 - 300
Q [m³/h]	≤ 1900
H [m]	≤ 102
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal volute casing pump in back pull-out design, single-stage, with ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.

#### Applications

Heat transfer systems, hot water recirculation



<http://shop.ksb.com/catalog/k0/en/product/ES000790>

### Etabloc SYT



DN	25 - 80
Q [m³/h]	≤ 280
H [m]	≤ 68
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, with ratings to EN 733, radially split volute casing, replaceable casing wear rings, volute casing with integrally cast pump feet, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, product-lubricated carbon plain bearing, grease-lubricated radial ball bearing in the motor housing, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system, ATEX-compliant version available.

#### Applications

Heat transfer systems, hot water recirculation



<http://shop.ksb.com/catalog/k0/en/product/ES000791>

### Etaline SYT



DN	32 - 100
Q [m³/h]	≤ 316
H [m]	≤ 69
p [bar]	≤ 16
T [°C]	≥ -30 - ≤ +350

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. ATEX-compliant version available.

#### Applications

Heat transfer systems, hot water recirculation



<http://shop.ksb.com/catalog/k0/en/product/ES000789>

## Standardised chemical pumps

### MegaCPK



DN	25 - 250
Q [m³/h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 25
T [°C]	≥ -40 - ≤ +400

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858 / ISO 5199; also available as a variant with "wet" shaft and conical seal chamber. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

#### Applications

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.



<http://shop.ksb.com/catalog/k0/en/product/ES000861>

## CPKN



DN	150 - 400
Q [m³/h]	≤ 4150
H [m]	≤ 185
p [bar]	≤ 25
T [°C]	≥ -40 - ≤ +400

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Also available as a variant with "wet" shaft, conical seal chamber and/or semi-open impeller (CPKNO). ATEX-compliant version available.

**Applications**

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical and petrochemical industries, in refineries, power stations and desalination plants as well as in the food industry and general industry.



<http://shop.ksb.com/catalog/k0/en/product/ES000027>

## Seal-less pumps

### Magnochem



DN	25 - 250
Q [m <sup>3</sup> /h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -90 - ≤ +350
Data for 50 Hz operation Also available for 60 Hz	

#### Description

Horizontal seal-less volute casing pump in back pull-out design, with magnetic drive, to DIN EN ISO 2858 / ISO 5199, with radial impeller, single-entry, single-stage. ATEX-compliant version available.

#### Applications

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.



<http://shop.ksb.com/catalog/k0/en/product/ES000046>

### Magnochem 685



DN	25 - 250
Q [m <sup>3</sup> /h]	≤ 1160
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -90 - ≤ +350
Data for 50 Hz operation Also available for 60 Hz	

#### Description

Horizontal seal-less volute casing pump, with magnetic drive, radial impeller, single-entry, single-stage. Design to ISO 15783 / API 685 (centreline mounting, ASME flanges, and twice the permissible nozzle forces). ATEX-compliant version available.

#### Applications

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.

### Magnochem-Bloc



DN	25 - 160
Q [m <sup>3</sup> /h]	≤ 625
H [m]	≤ 162
p [bar]	≤ 40
T [°C]	≥ -40 - ≤ +200
Data for 50 Hz operation Also available for 60 Hz	

#### Description

Horizontal or vertical seal-less volute casing pump in close-coupled design, with magnetic drive, to DIN EN ISO 2858 / ISO 5199, with radial impeller, single-entry, single-stage. ATEX-compliant version available.

#### Applications

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.



<http://shop.ksb.com/catalog/k0/en/product/ES000045>

### Etaseco / Etaseco-I



DN	32 - 100
Q [m <sup>3</sup> /h]	≤ 250
H [m]	≤ 100
p [bar]	≤ 16
T [°C]	≥ -40 - ≤ +140
Data for 50 Hz operation Also available for 60 Hz	

#### Description

Horizontal or vertical seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 733, or in in-line design.

#### Applications

Pumping aggressive, flammable, toxic, volatile or valuable liquids in the chemical and petrochemical industries, in environmental engineering and industrial applications.



<http://shop.ksb.com/catalog/k0/en/product/ES000122>

### Etaseco RVP



DN	25 - 40
Q [m <sup>3</sup> /h]	≤ 44
H [m]	≤ 40
p [bar]	≤ 16
T [°C]	≥ -50 - ≤ +110
Data for 50 Hz operation Also available for 60 Hz	

#### Description

Horizontal or vertical seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 733, or in in-line design.

#### Applications

Pumping toxic, volatile or valuable liquids in environmental engineering and industrial applications and as coolant pump in cooling systems. Transport vehicles, environmental engineering and industry; applications where low noise emission, smooth running or long service intervals are required.



<http://shop.ksb.com/catalog/k0/en/product/ES000122>

## Process pumps

### RPH



DN	25 - 400
Q [m³/h]	≤ 4150
H [m]	≤ 270
p [bar]	≤ 110
T [°C]	≥ -70 - ≤ +450

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal radially split volute casing pump in back pull-out design, to API 610, ISO 13709 (heavy-duty), type OH2, with radial impeller, single-entry, single-stage, centreline pump feet; with inducer if required. ATEX-compliant version available.

#### Applications

Refineries, petrochemical and chemical industries, power stations, offshore and onshore processes.



<http://shop.ksb.com/catalog/k0/en/product/ES000040>

### RPH-LF



DN	50
Q [m³/h]	≤ 40
H [m]	≤ 339
T [°C]	≥ -30 - ≤ +200

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal single-entry single-stage radially split overhung centreline-mounted process pump with circular casing and overhung impeller to API 610 (ISO 13709), type OH2. Special design for low flow rates. ATEX-compliant version available.

#### Applications

Refineries, petrochemical and chemical industries; applications with low flow rates.



<http://shop.ksb.com/catalog/k0/en/product/ES0000945>

### RPHb / RPHd



DN	50 - 400
Q [m³/h]	≤ 4500
H [m]	≤ 530
p [bar]	≤ 100
T [°C]	≥ -80 - ≤ +450

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Heavy-duty horizontal radially split between-bearings volute casing pump to API 610, ISO 13709 (heavy duty), type BB2, with radial impellers, single- or double-entry, single- or two-stage design with centreline pump feet. ATEX-compliant version available.

#### Applications

Refineries, petrochemical and chemical industries, offshore and onshore processes.



<http://shop.ksb.com/catalog/k0/en/product/ES0000041>

### RPH-V



DN2 / DN3	25 - 80 / 40 - 150
Q [m³/h]	≤ 80
H [m]	≤ 160
p [bar]	≤ 35
T [°C]	≥ -30 - ≤ +230

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Vertical radially split volute casing pump to API 610 and ISO 13709 (heavy-duty), type VS4, with radial impeller, single-entry, single-stage.

#### Applications

Refineries, petrochemical and chemical industries, offshore and onshore processes.



<http://shop.ksb.com/catalog/k0/en/product/ES0000880>

### CTN



DN	25 - 250 / 250 - 400
Q [m³/h]	≤ 950
H [m]	≤ 115
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +300

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Radially split vertical shaft submersible pump with double volute casing for wet and dry installation, with radial impeller, single-entry, single-stage or two-stage; heatable model available. ATEX-compliant version available.



#### Applications

Pumping chemically aggressive liquids, also slightly contaminated or with a low solids content, in the chemical and petrochemical industries.





<http://shop.ksb.com/catalog/k0/en/product/ES0000014>



## CHTR

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	50 - 300 ≤ 1450 ≤ 4000 ≤ 400 ≥ -60 - ≤ +450 ≤ 7000	<b>Description</b> Horizontal high-pressure barrel-type pump with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN, API 610 and ANSI.	
	Data for 50 Hz operation Also available for 60 Hz Higher ratings possible upon request	<b>Applications</b> Refineries, petrochemical industry, steam generation, seawater injection in crude oil production (onshore and offshore)		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000241">http://shop.ksb.com/catalog/k0/en/product/ES000241</a>	



## CHTRa

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	80 - 300 ≤ 1200 ≤ 1550 ≤ 155 ≥ -40 - ≤ +205 ≤ 6000	<b>Description</b> Horizontal axially split single-entry multistage between-bearings volute casing pump with single casing and back-to-back impeller arrangement to API 610 (ISO 13709), type BB3. First stage optionally available in double-entry design for low NPSH requirements. ATEX-compliant version available.	
	Data for 50 Hz operation Also available for 60 Hz	<b>Applications</b> Refineries, petrochemical industry, pipelines for crude oil and refinery products, water injection, feed water transport in power stations and industrial plants, mining, seawater desalination, reverse osmosis.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000933">http://shop.ksb.com/catalog/k0/en/product/ES000933</a>	



## CINCP / CINCN

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	32 - 200 ≤ 780 ≤ 105 ≤ 10 ≥ -10 - ≤ +100 ≤ 3000	<b>Description</b> Vertical immersion pump in cantilever design for wet or dry installation. Semi-open impeller, pump shaft without guide bearings, supported by ball bearings in the upper section of the pump set. Supplied with discharge pipe extending above the baseplate (CINCP) or without discharge pipe (CINCN). ATEX-compliant version available.	
	Data for 50 Hz operation Also available for 60 Hz	<b>Applications</b> Chemical and petrochemical industries, raw materials extraction and waste water management.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000718">http://shop.ksb.com/catalog/k0/en/product/ES000718</a>	

## INVCP

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	32 - 300 ≤ 1600 ≤ 116 ≤ 10 ≥ -10 - ≤ +100 ≤ 3000	<b>Description</b> Vertical immersion pump for wet or dry installation, available with closed or semi-open impeller. Supplied with discharge pipe extending above the baseplate (INVCP) or without discharge pipe (INVCN). ATEX-compliant version available.	
	Data for 50 Hz operation Also available for 60 Hz	<b>Applications</b> Pumping chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000737">http://shop.ksb.com/catalog/k0/en/product/ES000737</a>	

## Estigia

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	25 - 250 ≤ 1160 ≤ 110 ≤ 16 ≥ -30 - ≤ +100 ≤ 3000	<b>Description</b> Vertical immersion pump for wet installation with closed impeller, to DIN EN ISO 5199 (with comments). Supplied with discharge pipe extending above the cover plate, DN according to nominal flow rate. Sealing by lip seal, single or double cartridge mechanical seal. ATEX-compliant version available.	
	Data for 50 Hz operation Also available for 60 Hz	<b>Applications</b> Pumping chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.		
<span style="color: red;">●</span> KSB SuPremE, PumpDrive, Frequency inverter			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000937">http://shop.ksb.com/catalog/k0/en/product/ES000937</a>	



## RWCP / RWCN



DN	50 - 200
Q [m³/h]	≤ 700
H [m]	≤ 100
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +100
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Process pump with free-flow impeller, semi-open or two-channel or three-channel impeller. Shaft sealed by mechanical seal or gland packing in accordance with various API pipework plans. Oil-lubricated bearings. ATEX-compliant version available.

**Applications**

Refineries, chemical and petrochemical industries, steel works, descaling units, raw materials extraction, waste water management.



<http://shop.ksb.com/catalog/k0/en/product/ES000748>

## WKTR



DN	40 - 150
Q [m³/h]	≤ 400
H [m]	≤ 500
p [bar]	≤ 51
T [°C]	≥ -40 - ≤ +200
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Vertical can-type ring-section pump. Type VS6 to API 610 and DIN ISO 13709, multistage, first-stage impeller designed as suction impeller, radial impellers. ATEX-compliant version available.

**Applications**

Pumping condensate and other NPSH-critical products in industrial plants, particularly in refineries and petrochemical plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000875>

## Rainwater harvesting systems

### Hya-Rain / Hya-Rain N



Rp	1
Q [m³/h]	≤ 4
H [m]	≤ 43
p [bar]	≤ 6
T [°C]	≥ 0 - ≤ +35

Data for 50 Hz operation

#### Description

Ready-to-connect package rainwater harvesting system in protective housing with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control. Hya-Rain N version with analog level measurement in rainwater storage tank and integrated functional check run.

#### Applications

Rainwater harvesting and service water harvesting, general irrigation and spray irrigation systems.


<http://shop.ksb.com/catalog/k0/en/product/ES000256>

### Hya-Rain Eco



Rp	1
Q [m³/h]	≤ 4
H [m]	≤ 43
p [bar]	≤ 6
T [°C]	≥ 0 - ≤ +35

Data for 50 Hz operation

#### Description

Basic ready-to-connect package rainwater harvesting system with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control.

#### Applications

Rainwater harvesting and service water harvesting, general irrigation and spray irrigation systems.


<http://shop.ksb.com/catalog/k0/en/product/ES000600>

## Domestic water supply / swimming pool pumps

### Multi Eco



Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

#### Description

Multistage self-priming centrifugal pump in close-coupled design.

#### Applications

Single- or two-family houses, agricultural facilities, spray irrigation systems, general irrigation systems and washing plants, water supply and rainwater harvesting.



Controlmatic, Cervomatic

<http://shop.ksb.com/catalog/k0/en/product/ES000085>

### Multi Eco-Pro



Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

#### Description

Multistage self-priming centrifugal pump in close-coupled design, with power cable, plug and Controlmatic E automatic control unit starting and stopping the pump in line with consumer demand and protecting it against dry running. Automated with automatic control unit.

#### Applications

Single- or two-family houses, agricultural facilities, spray irrigation systems, general irrigation systems and washing plants, water supply and rainwater harvesting.


<http://shop.ksb.com/catalog/k0/en/product/ES000253>

## Multi Eco-Top



Rp	1 - 1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 54
p [bar]	≤ 10
T [°C]	≥ +4 - ≤ +50
n [rpm]	≤ 2800

Data for 50 Hz operation

### Description

Multistage self-priming centrifugal pump in close-coupled design incl. accumulator with replaceable membrane in drinking water quality, total volume 20 or 50 litres, pressure switch for automatic pump operation and 1.5-metre power cable with plug.

### Applications

Single- or two-family houses, agricultural facilities, spray irrigation systems, general irrigation systems and washing plants, water supply and rainwater harvesting.


<http://shop.ksb.com/catalog/k0/en/product/ES000254>

## Ixo N



Rp	1 1/4
Q [m³/h]	≤ 8
H [m]	≤ 65
T [°C]	≥ +5 - ≤ +35
n [rpm]	≤ 2900

Data for 50 Hz operation

### Description

Multistage close-coupled centrifugal pump for fully or partly submerged operation (min. immersion depth 0.1 m), with low-level inlet, suction strainer with a max. mesh width of 2.0 mm.

### Applications

Water supply systems, spray irrigation systems, general irrigation systems, washing plants, rainwater harvesting and water extraction from wells, reservoirs and rainwater storage tanks


<http://shop.ksb.com/catalog/k0/en/product/ES000007>

Control unit, Cervomatic

## Ixo-Pro



Rp	1
Q [m³/h]	≤ 3,9
H [m]	≤ 60
T [°C]	≥ +5 - ≤ +35

Data for 50 Hz operation

### Description

Multistage submersible borehole pump with integrated pressure switch, flow sensor and lift check valve. Electronic dry running protection with four consecutive start-up attempts; integrated capacitor. 15-metre H07 RN-F power cable with shockproof plug included.

### Applications

Rainwater harvesting, pressure boosting, water extraction, irrigation systems


<http://shop.ksb.com/catalog/k0/en/product/ES000896>

## Filtra N



Rp	2
Q [m³/h]	≤ 36
H [m]	≤ 21
p [bar]	≤ 2,5
T [°C]	≥ +4 - ≤ +35
n [rpm]	≤ 2800

Data for 50 Hz operation

### Description

Single-stage self-priming centrifugal pump in close-coupled design.

### Applications

Pumping clean or slightly contaminated water, swimming pool water with a max. chlorine content of 0.3 %; ozonised swimming pool water with a max. salt content of 7 %.


<http://shop.ksb.com/catalog/k0/en/product/ES000090>

## Pressure booster systems

### KSB Delta Macro F/VC/SVP



Rp	1 1/2
Q [m³/h]	≤ 960
H [m]	≤ 155
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +60

Data for 50 Hz operation

### Description



Fully automatic package pressure booster system with two to six vertical high-pressure pumps; available in cascade-controlled and two variable speed versions. Cascade control (F) for ensuring the required supply pressure. The VC and SVP versions ensure variable speed control of each pump by cabinet-mounted frequency inverter (VC) or motor-mounted PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Automated with BoosterControl.

### Applications



Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000978>



## KSB Delta Solo/Basic Compact MVP

	Rp Q [m³/h] H [m] p [bar] T [°C]	1 / 1 1/2 ≤ 18 ≤ 57 ≤ 10 ≥ 0 - ≤ +40	<b>Description</b> Fully automatic ready-to-connect package single-pump pressure booster system / dual-pump pressure booster system with variable speed system	
	Data for 50 Hz operation	<b>Applications</b> Domestic water supply, water supply systems, spray irrigation systems, general irrigation systems, service water systems, rainwater harvesting		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000940">http://shop.ksb.com/catalog/k0/en/product/ES000940</a>	



## KSB Delta Basic MVP/SVP

	Rp Q [m³/h] H [m] p [bar] T [°C]	1 1/2 ≤ 65,4 ≤ 134 ≤ 16 ≥ 0 - ≤ +60	<b>Description</b> Fully automatic pressure booster system with two to three (MVP) / four (SVP) vertical high-pressure pumps in two variable speed versions. The frequency inverter operated MVP and SVP versions ensure variable speed control of each pump by motor-mounted frequency inverter for asynchronous motors (MVP) or PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Equipped with a central fuse box.	
	Data for 50 Hz operation	<b>Applications</b> Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000942">http://shop.ksb.com/catalog/k0/en/product/ES000942</a>	



## KSB Delta Primo F/VC/SVP

	Rp Q [m³/h] H [m] p [bar] T [°C]	1 1/2 ≤ 67,5 ≤ 134 ≤ 16 ≥ 0 - ≤ +60	<b>Description</b> Fully automatic package pressure booster system with two to three (VC) / four (F/SVP) vertical high-pressure pumps; available in cascade-controlled and two variable speed versions. Cascade control (F) for ensuring the required supply pressure. The frequency inverter operated VC and SVP versions ensure variable speed control of each pump via cabinet-mounted frequency inverter (VC) or PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Automated with BoosterControl.	
	Data for 50 Hz operation	<b>Applications</b> Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000941">http://shop.ksb.com/catalog/k0/en/product/ES000941</a>	

## KSB Delta Solo MVP/SVP

	Rp Q [m³/h] H [m] p [bar] T [°C]	1 1/4 ≤ 76 ≤ 134 ≤ 16 ≥ 0 - ≤ +60	<b>Description</b> Fully automatic single-pump system available in two variable speed versions. The frequency inverter operated MVP and SVP versions ensure variable speed control of each pump by motor-mounted frequency inverter for asynchronous motors (MVP) or PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure.	
	Data for 50 Hz operation	<b>Applications</b> Water supply systems for residential buildings and office buildings, irrigation systems and rainwater harvesting systems, service water supply systems, in trade and industry.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000939">http://shop.ksb.com/catalog/k0/en/product/ES000939</a>	

## Hya-Solo D

	Rp DN Q [m³/h] H [m] p [bar] T [°C]	1 100 ≤ 110 ≤ 160 ≤ 16 ≥ 0 - ≤ +70	<b>Description</b> Fully automatic package single-pump system with 8-litre membrane-type accumulator. The system is started and stopped as a function of pressure.	
	Data for 50 Hz operation	<b>Applications</b> Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000250">http://shop.ksb.com/catalog/k0/en/product/ES000250</a>	

## Hya-Solo DSV



Rp	1
DN	100
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic variable speed package single-pump system with PumpDrive 2 / PumpDrive 2 Eco. The system is started as a function of pressure and stopped as a function of flow.

### Applications

Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.


<http://shop.ksb.com/catalog/k0/en/product/ES000251>

## Hya-Solo D FL



Rp	1
DN	100
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package single-pump system. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

### Applications

Fire-fighting systems to DIN 14462


<http://shop.ksb.com/catalog/k0/en/product/ES000709>

## Hya-Duo D FL



Rp	2
DN	150
Q [m³/h]	≤ 110
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package dual-pump system consisting of one duty system and one stand-by system to ensure system redundancy. Design and function as per DIN 14462.

### Applications

Fire-fighting systems to DIN 14462


<http://shop.ksb.com/catalog/k0/en/product/ES000710>

## Hya-Solo D FL Compact



DN	50 - 80
Q [m³/h]	≤ 48
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic ready-to-connect break tank package booster set for fire fighting, comprising a single-pump system and break tank. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

### Applications

Fire-fighting systems to DIN 14462


<http://shop.ksb.com/catalog/k0/en/product/ES000821>

## Hya-Duo D FL Compact



DN	50 - 80
Q [m³/h]	≤ 48
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic ready-to-connect break tank package booster set for fire fighting, comprising one duty system and one stand-by system to ensure system redundancy. The system is started and stopped as a function of pressure. Design and function as per DIN 14462.

### Applications

Fire-fighting systems to DIN 14462


<http://shop.ksb.com/catalog/k0/en/product/ES000820>

## Hyamat K



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps and fully electronic control to ensure the required supply pressure, with volt-free changeover contact for general fault indication and broken wire detection (live-zero) of the connected sensors, design and function to DIN 1988. Automated with BoosterControl.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000247>

## Hyamat V



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of one pump; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000417>

## Hyamat SVP



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of all pumps by PumpDrive; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl and PumpDrive.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000418>

## Hyamat SVP ECO



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of all pumps by PumpDrive; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with PumpDrive.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000935>

## Surpresschrom SIC.2



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps, with fully electronic control system ensuring the required supply pressure, with volt-free changeover contact for general fault indication and broken wire detection (live-zero) of the connected sensors. Automated with BoosterControl.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000439>

## Surpresschrom SIC.2 V



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps. Continuously variable speed adjustment of one pump with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000702>

## Surpresschrom SIC.2 SVP



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic package pressure booster system with 2 to 6 vertical high-pressure pumps. Continuously variable speed adjustment of all pumps with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.

### Applications

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.


<http://shop.ksb.com/catalog/k0/en/product/ES000701>

## Surpress Feu SFE



Rp	2 1/2
Q [m³/h]	≤ 40
H [m]	≤ 76
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

### Description

Fully automatic pressure booster system with two horizontal close-coupled pumps (one pump on stand-by duty). Design complies with APSAD regulation R5. Pressure-controlled starting and stopping. Automated with BoosterControl.

### Applications

Water supply and pressure boosting for wall hydrants, fire protection.


<http://shop.ksb.com/catalog/k0/en/product/ES000441>

## Drainage pumps / waste water pumps

### Ama-Drainer N



Rp	1 1/4 - 1 1/2
Q [m³/h]	≤ 16,5
H [m]	≤ 12
T [°C]	≥ 0 - ≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical single-stage fully floodable submersible motor pump in close-coupled design, IP68, with or without level control, max. immersion depth: 2 m.

### Applications

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000771>

### Ama-Drainer 4../5..



Rp	1 1/2 - 2
Q [m³/h]	≤ 50
H [m]	≤ 24
T [°C]	≥ 0 - ≤ +40

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical single-stage fully floodable submersible motor pump in close-coupled design, IP68, with or without level control, max. immersion depth: 7 m.

### Applications

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000078>

## Ama-Drainer 80, 100



Rp	≥ 1/2
DN	100
Q [m³/h]	≤ 130
H [m]	≤ 26
T [°C]	≥ 0 - ≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical single-stage fully floodable submersible motor pump in close-coupled design, IP68, with or without level control, max. immersion depth: 10 m.

### Applications

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000079>

## Ama-Porter F / S



DN	50 - 65
Q [m³/h]	≤ 40
H [m]	≤ 16
T [°C]	≤ +40

Data for 50 Hz operation

### Description

Vertical single-stage fully floodable submersible waste water pump in close-coupled design (grey cast iron variant), non-explosion-proof.

### Applications

Handling waste water, especially waste water containing long fibres and solid substances, liquids containing gas/air, removing waste water from flooded rooms and surfaces.



Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000082>

## Rotex



Rp	1 1/4 - 2
Q [m³/h]	≤ 24
H [m]	≤ 14
T [°C]	≥ 0 - ≤ +90
n [rpm]	≤ 2900
Installation depth [m]	≤ 1,7

Data for 50 Hz operation

### Description

Vertical single-stage centrifugal pump with discharge to the top and parallel with the pump shaft, pump base designed to act as suction strainer. Pump and motor are rigidly connected by a support column. Supplied ready to be plugged in, with 1.5-metre power cable and level switch.

### Applications

Automatic drainage of buildings, pits and tanks, lowering of surface water levels and drainage.



<http://shop.ksb.com/catalog/k0/en/product/ES000012>

## MK / MKY



Rp	2
DN	50
Q [m³/h]	≤ 36
H [m]	≤ 19
T [°C]	≥ -10 - ≤ +200
n [rpm]	≤ 3500
Installation depth [m]	≤ 2,8

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Vertical submersible pump with three-channel impeller, volute casing designed as inlet strainer.

### Applications

Pumping condensate and heat transfer fluids below boiling point, condensate return systems, primary and secondary heating circuits, for direct installation in heating tanks or heat exchangers in the secondary circuits of heat transfer systems (MKY).



Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000013>

## Lifting units / package pump stations

### Amaclean



Ø [mm]	1000 - 1800
DN	50 - 100
Installation depth [m]	4,5 - 9,0

### Description

Self-cleaning tank insert for grouted installation in new concrete structures or in concrete structures in need of refurbishment. Designed to prevent soiling of the structure and clogging of the pumps by heavily waste or fibre loaded waste water. Suitable for pump stations emitting unpleasant odours and/or gases.

### Applications

Waste water disposal, rainwater disposal



<http://shop.ksb.com/catalog/k0/en/product/ES0000936>



## Ama-Drainer-Box Mini



DN	40
Q [m³/h]	≤ 10
H [m]	≤ 6,5
T [°C]	≤ +50

Data for 50 Hz operation

### Description

Reliable and compact waste water lifting unit in a modern design with activated carbon filter meeting hygiene requirements and with shower connection as standard; complies with EN 12050-2

### Applications

Automatic disposal of waste water from washbasins, showers, washing machines and dishwashers. Use mini-Compacta sewage lifting unit for handling sewage from urinals and toilets.



<http://shop.ksb.com/catalog/k0/en/product/ES000862>

## Ama-Drainer-Box



DN	40 - 50
Q [m³/h]	≤ 46
H [m]	≤ 24
T [°C]	≤ +40

Data for 50 Hz operation

Also available for 60 Hz

### Description

Stable above-floor plastic collecting tank or impact-resistant underfloor plastic collecting tank, with floor drain and odour trap, both with Ama-Drainer submersible motor pump starting and stopping automatically and swing check valve

### Applications

Automatic disposal of waste water from washbasins, showers, washing machines, garage driveways, basements and rooms prone to flooding



<http://shop.ksb.com/catalog/k0/en/product/ES000262>

## Evamatic-Box N



DN	50 - 65
Q [m³/h]	≤ 40
H [m]	≤ 21
T [°C]	≤ +40

Data for 50 Hz operation

### Description

Floodable lifting unit for domestic waste water, equipped with either one or two pumps of type Ama-Porter F (free-flow impeller) or Ama-Porter S (cutter)

### Applications

Disposal of domestic and municipal waste water occurring below the flood level



<http://shop.ksb.com/catalog/k0/en/product/ES000430>

## mini-Compacta



DN	32 - 100
Q [m³/h]	≤ 36
H [m]	≤ 25
T [°C]	≤ +40

Data for 50 Hz operation

Also available for 60 Hz

### Description

Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of domestic waste water and faeces in building sections below the flood level.

### Applications

Basement flats, bars, basement party rooms, basement saunas, cinemas, theatres, department stores, hospitals, hotels, restaurants, schools.



<http://shop.ksb.com/catalog/k0/en/product/ES000261>

## Compacta



DN	80 - 100
Q [m³/h]	≤ 140
H [m]	≤ 24,5
T [°C]	≤ +40

Data for 50 Hz operation

### Description

Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of waste water and faeces in buildings and building sections below the flood level.



### Applications

Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, other public buildings, industrial facilities, underground train stations or for joint sewage disposal from rows of houses.





<http://shop.ksb.com/catalog/k0/en/product/ES000260>



## CK 800 Pump Station

	DN Q [m³/h] H [m] T [°C]	32 - 50 ≤ 22 ≤ 49 ≤ +40	<b>Description</b> Single-pump station / dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N S (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.	
	Data for 50 Hz operation	<b>Applications</b> Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage		
<input type="checkbox"/> <input type="checkbox"/>			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000778">http://shop.ksb.com/catalog/k0/en/product/ES000778</a>	



## CK 1000 Pump Station

	DN Q [m³/h] H [m] T [°C]	50 - 65 ≤ 50 ≤ 39 ≤ +40	<b>Description</b> Single-pump station / dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.	
	Data for 50 Hz operation	<b>Applications</b> Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage		
<input type="checkbox"/> <input type="checkbox"/>			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000266">http://shop.ksb.com/catalog/k0/en/product/ES000266</a>	



## Ama-Porter CK Pump Station

	DN Q [m³/h] H [m] T [°C]	50 - 65 ≤ 40 ≤ 16 ≤ +40	<b>Description</b> Single-pump station / dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.	
	Data for 50 Hz operation	<b>Applications</b> Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage		
<input type="checkbox"/> <input type="checkbox"/>			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000498">http://shop.ksb.com/catalog/k0/en/product/ES000498</a>	

## SRP

	DN Q [m³/h] H [m] T [°C]	50 - 150 ≤ 500 ≤ 75 ≤ +40	<b>Description</b> Single-pump station or dual-pump station as ready-to-connect package system, with fibreglass collecting tank for buried installation	
	Data for 50 Hz operation Also available for 60 Hz	<b>Applications</b> Premises renovation, disposal of domestic, municipal and industrial waste water, joint sewage disposal for multiple residential units		
<input type="checkbox"/> <input checked="" type="checkbox"/> Control unit, LevelControl			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000443">http://shop.ksb.com/catalog/k0/en/product/ES000443</a>	

## SRL

	DN Q [m³/h] H [m] T [°C]	65 - 150 ≤ 500 ≤ 55 ≤ +40	<b>Description</b> Package pump station with tank made of glass fibre reinforced polyester, equipped with two dry-installed Sewabloc pumps with a rating of 2.2 to 30 kW, integrated valves and a control unit with frequency inverters. Pump operation is adjusted in line with flow rate demand, thus minimising energy costs. This maintenance-friendly pump station prevents intermediate storage of waste water and the related odour nuisance.	
	Data for 50 Hz operation	<b>Applications</b> Joint disposal of domestic, municipal and industrial waste water to the sewer system / waste water treatment plant		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000856">http://shop.ksb.com/catalog/k0/en/product/ES000856</a>	

## SRS



DN  
Q [m<sup>3</sup>/h]  
H [m]  
T [°C]

Data for 50 Hz operation  
Also available for 60 Hz

50 - 65  
≤ 50  
≤ 49  
≤ +40

**Description**

Package pump station with tank made of glass fibre reinforced polyester for underfloor installation and two submersible waste water pumps mounted on duckfoot bends, with two guide systems. Complete discharge line made of PVC with ball valves and ball check valves fitted in the tank.

**Applications**

Stormwater disposal, grey water disposal, waste water disposal



LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000773>

## Submersible motor pumps

### Amarex



DN	50 - 150
Q [m <sup>3</sup> /h]	≤ 320
H [m]	≤ 42
T [°C]	≤ +40

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Vertical single-stage submersible motor pump for wet installation, with free-flow impeller (F-max) or open dual-vane impeller (D-max), stationary or transportable version. Single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

**Applications**  
Waste water transport, waste water management, drainage systems, waste water treatment plants, stormwater transport, recirculation, sludge treatment



● Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000979>

### Amarex N



DN	32 - 100
Q [m <sup>3</sup> /h]	≤ 190
H [m]	≤ 49
T [°C]	≤ +40

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Vertical single-stage submersible motor pump for wet installation, with cutter (S), free-flow impeller (F) or diagonal single-vane impeller (D), stationary or transportable version. Amarex N pumps are floodable, single-stage, single-entry close-coupled pump sets which are not self-priming. ATEX-compliant version available.

**Applications**  
Pumping waste water, especially untreated waste water containing long fibres and solid substances, liquids containing gas or air, and raw, activated and digested sludge; dewatering and water extraction, drainage of rooms and areas at risk of flooding.



● Control unit, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000507>

### Amarex KRT



DN	40 - 700
Q [m <sup>3</sup> /h]	≤ 10080
H [m]	≤ 120
T [°C]	≤ +60
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Horizontal or vertical single-stage submersible motor pump in close-coupled design, with various next-generation impeller types, for wet or dry installation, stationary or transportable version, with energy-saving motor and models for use in potentially explosive atmospheres.

**Applications**  
Pumping all types of waste water in water and waste water management, seawater desalination and industry, especially untreated waste water containing long fibres and solid substances, liquids containing gas or air, and raw, activated and digested sludge.



● PumpDrive, Amacontrol, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000092>

## Submersible pumps in discharge tubes

### Amacon K



DN	700 - 1400
Q [m <sup>3</sup> /h]	≤ 5400
H [m]	≤ 30
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 980

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Wet-installed submersible motor pump for installation in discharge tubes, with channel impeller, single-stage, single-entry. ATEX-compliant version available.

**Applications**  
Handling pre-cleaned chemically neutral waste water, industrial effluent and sewage, fluids not containing any stringy substances, pre-treated by screens or overflow sills; as waste water, mixed sewage and activated sludge pumps in waste water treatment plants, irrigation and drainage pumping stations.



● Amacontrol

<http://shop.ksb.com/catalog/k0/en/product/ES000100>

## Amacan P



DN	500 - 1500
Q [m³/h]	≤ 25200
H [m]	≤ 12
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 1450

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Wet-installed submersible motor pump for installation in discharge tubes, with axial propeller in ECB design, single-stage, single-entry. ATEX-compliant version available.

### Applications

Irrigation and drainage pumping stations, for stormwater transport in stormwater pumping stations, raw and clean water transport in water and waste water treatment plants, cooling water transport in power stations and industrial plants, industrial water supply, water pollution control and flood control, aquaculture.



 Amacontrol

<http://shop.ksb.com/catalog/k0/en/product/ES000099>

## Amacan S



DN	650 - 1300
Q [m³/h]	≤ 10800
H [m]	≤ 40
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 1450

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Wet-installed submersible motor pump for installation in discharge tubes, with mixed flow impeller, single-stage. ATEX-compliant version available.

### Applications

Pumping water not containing stringy material in irrigation and drainage pumping stations, general water supply systems, water pollution and flood control.





 Amacontrol



<http://shop.ksb.com/catalog/k0/en/product/ES000101>

## Mixers / agitators / tank cleaning units



### Amamix

	Propeller Ø [mm]                    200 - 600 T [°C]                                    ≥ 0 - ≤ +40 Installation depth [m]                ≤ 30  Data for 50 Hz operation Also available for 60 Hz	<b>Description</b> Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, direct drive. ATEX-compliant version available.	
	<b>Applications</b> Handling municipal and industrial waste water and sludges as well as applications in environmental engineering.		
<span style="color: red;">●</span> Amacontrol		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000268">http://shop.ksb.com/catalog/k0/en/product/ES000268</a>	

### Amaprop

	Propeller Ø [mm]                    1000 - 2500 T [°C]                                    ≥ 0 - ≤ +40 Installation depth [m]                ≤ 12  Also available for 60 Hz	<b>Description</b> Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, with coaxial spur gear drive. ATEX-compliant version available.	
	<b>Applications</b> In environmental engineering, particularly in municipal and industrial waste water and sludge treatment, for circulating, keeping in suspension and inducing flow in nitrification tanks and denitrification tanks, activated sludge tanks, biological phosphate elimination tanks, flocculation tanks and sludge storage tanks		
<span style="color: red;">●</span> Amacontrol		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000271">http://shop.ksb.com/catalog/k0/en/product/ES000271</a>	

### Amaline

	DN                                        200 - 800 Q [m³/h]                                ≤ 6600 H [m]                                      ≤ 2,5 T [°C]                                    ≥ 0 - ≤ +40 n [rpm]                                  ≤ 1450  Data for 50 Hz operation Also available for 60 Hz	<b>Description</b> Wet-installed horizontal propeller pump with submersible motor, equipped with direct drive or spur gear, ECB propeller with rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. Explosion-proof version available.	
	<b>Applications</b> Recirculating activated sludge in waste water treatment systems.		
<span style="color: red;">●</span> Amacontrol		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000273">http://shop.ksb.com/catalog/k0/en/product/ES000273</a>	

## Pumps for solids-laden fluids

### Sewatec



DN	50 - 700
Q [m³/h]	≤ 10000
H [m]	≤ 115
p [bar]	≤ 10
T [°C]	≤ +70
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Volute casing pump for horizontal or vertical installation, with various next-generation impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

**Applications**  
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment



● PumpDrive, Amacontrol, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000068>

### Sewatec SPN



DN	≤ 1200
Q [m³/h]	≤ 32400
H [m]	≤ 115
p [bar]	≤ 16
T [°C]	≤ +70

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Vertical volute casing pump with multi-channel impellers (K), discharge flange to DIN and ANSI standards.

**Applications**  
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water

### Sewabloc



DN	50 - 200
Q [m³/h]	≤ 1000
H [m]	≤ 90
p [bar]	≤ 10
T [°C]	≤ +70
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Close-coupled volute casing pump for horizontal or vertical installation, with various next-generation impeller types, discharge flange to DIN and ANSI standards. Explosion-proof version available.

**Applications**  
Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment



● PumpDrive, LevelControl

<http://shop.ksb.com/catalog/k0/en/product/ES000069>

### KWP



DN	40 - 900
Q [m³/h]	≤ 15000
H [m]	≤ 100
p [bar]	≤ 10
T [°C]	≥ -40 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Horizontal radially split volute casing pump in back pull-out design, single-stage, single-entry, available with various impeller types: closed multi-channel impeller, open multi-vane impeller and free-flow impeller. ATEX-compliant version available.

**Applications**  
Paper industry, cellulose industry, sugar industry, food industry, power plants, chemical industry, petrochemical industry, flue gas desulphurisation, coal upgrading plants, industrial engineering, waste water transport, seawater desalination / reverse osmosis



● PumpDrive

<http://shop.ksb.com/catalog/k0/en/product/ES000018>

### KWP-Bloc



DN	40 - 900
Q [m³/h]	≤ 325
H [m]	≤ 100
p [bar]	≤ 10
T [°C]	≥ -40 - ≤ +100
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Horizontal or vertical radially split close-coupled volute casing pump, single-stage, single-entry, available with various impeller types: closed multi-channel impeller, open multi-vane impeller and free-flow impeller.

**Applications**  
Paper industry, cellulose industry, sugar industry, food industry, chemical industry, petrochemical industry, flue gas desulphurisation, industrial engineering, waste water transport



● PumpDrive

<http://shop.ksb.com/catalog/k0/en/product/ES000020>

## Slurry pumps

### WBC



Q [m³/h]	≤ 16200
H [m]	≤ 80
p [bar]	≤ 32
T [°C]	≥ -20 - ≤ +120

**Description**

Patented design with state-of-the-art hydraulic system and highly wear-resistant materials for high-pressure applications. The pump casing is designed to withstand maximum stresses, e.g. during pressure surges.

**Applications**

Ideal for the single-stage or multistage transport of ore and tailings and for dredging.



<http://shop.ksb.com/catalog/k0/en/product/ES000227>

### LSA-S



Q [m³/h]	≤ 18000
H [m]	≤ 150
p [bar]	≤ 17
T [°C]	≥ -20 - ≤ +120

**Description**

Premium design white cast iron pump for long service life handling severe slurries. The maintenance-friendly single-wall construction and heavy section white cast iron wet end combined with the cartridge bearing assembly provide maximum reliability, a long service life and ease of maintenance.

**Applications**

Ore and tailings transport, cyclone feed, dredging (dry-installed or submerged operation) and industrial processes.



<http://shop.ksb.com/catalog/k0/en/product/ES000220>

### LCC-M



Q [m³/h]	≤ 3200
H [m]	≤ 90
p [bar]	≤ 16
T [°C]	≤ +120

**Description**

The wetted pump end (casing, impeller and suction plate / liner) is made of white cast iron. Design optimised to permit easy dismantling and reassembly for maintenance and inspections.

**Applications**

Reliable pump for high heads and moderately corrosive slurries. Used in mine dewatering, ash and tailings transport and dredging.



<http://shop.ksb.com/catalog/k0/en/product/ES000217>

### LCC-R



Q [m³/h]	≤ 2560
H [m]	≤ 42
p [bar]	≤ 16
T [°C]	≤ +65

**Description**

Interchangeable rubber-lined or part-metal design allows adaptation of existing pumps to new applications by simply exchanging the pump wet end.

**Applications**

The pumps are suitable for moderate heads, fine particles and highly corrosive slurries.



<http://shop.ksb.com/catalog/k0/en/product/ES000218>

### TBC



Q [m³/h]	≤ 18200
H [m]	≤ 90
p [bar]	≤ 37
T [°C]	≥ -20 - ≤ +120

**Description**

Horizontal high-pressure end-suction centrifugal pump offering maximum resistance to wear and ease of maintenance. The conventional single-wall design transfers stress loads from the wear plates to the casing covers in high-pressure applications. Pump components made of highly wear-resistant white cast iron.

**Applications**

High-head high-flow hydrotransport of tailings, dredged material, pipeline booster stations and other severe duties.



<http://shop.ksb.com/catalog/k0/en/product/ES000226>



## LCV



Q [m³/h]	≤ 2045
H [m]	≤ 38
p [bar]	≤ 14
T [°C]	≤ +120

**Description**  
Rugged vertical shaft submersible pump with casing, impeller and suction plate / liner made of white cast iron, bearing assembly located outside the fluid handled. Replaceable wetted parts made of white cast iron or natural rubber.

**Applications**  
Particularly suitable for use in industrial processes and for transporting tailings in mines and pits.



<http://shop.ksb.com/catalog/k0/en/product/ES000016>

## FGD



Q [m³/h]	≤ 23000
H [m]	≤ 30
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +120

**Description**  
High-flow / low-head white cast iron pump with single-wall casing and high-efficiency impeller. Single-piece suction cover with integrated mounting plate.

**Applications**  
Flue gas desulphurisation systems and process circuits



<http://shop.ksb.com/catalog/k0/en/product/ES000231>

## MHD



Q [m³/h]	≤ 90000
H [m]	≤ 115
p [bar]	≤ 13
T [°C]	≥ -20 - ≤ +120

**Description**  
Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Pump components made of white cast iron.

**Applications**  
Ideal for pipeline pressure booster stations and severe mining duties. Highly suitable for loading and unloading duties on (cutter) suction dredgers.



<http://shop.ksb.com/catalog/k0/en/product/ES000224>

## LHD



Q [m³/h]	≤ 30000
H [m]	≤ 105
p [bar]	≤ 15
T [°C]	≥ -20 - ≤ +120

**Description**  
Horizontal volute casing pump for high-volume hydrotransport of solids. For pumping slurries of large and very large particle sizes with a very good suction behaviour and high efficiency. Used in low-pressure applications. Pump components made of white cast iron.

**Applications**  
Ideal for handling sand and gravel, on dredgers for land reclamation and as booster pumps.



<http://shop.ksb.com/catalog/k0/en/product/ES000223>

## MDX



Q [m³/h]	≤ 14000
H [m]	≤ 90
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +120

**Description**  
Pump designed with the latest technology from GIW. Superior wear properties and extremely long service life handling aggressive slurries.

**Applications**  
Designed for SAG and ball mill discharge duties, cyclone feed, screen feed and other ore mining and treatment processes.



<http://shop.ksb.com/catalog/k0/en/product/ES000850>

## ZW



Q [m <sup>3</sup> /h]	≤ 400
H [m]	≤ 35
p [bar]	≤ 10
T [°C]	≥ 0 - ≤ +65

**Description**

Rugged vertical shaft submersible pump with casing, impeller and suction cover made of white cast iron, top and bottom impeller inlet. Long-life bearings not exposed to fluid handled. Replaceable wetted components.

**Applications**

Particularly suitable for pumping abrasive slurries, dewatering, floor clean-up and process applications.



<http://shop.ksb.com/catalog/k0/en/product/ES000852>

## HVF



Q [m <sup>3</sup> /h]	≤ 7200
H [m]	≤ 50
p [bar]	≤ 11
T [°C]	≤ +120

**Description**

The pump provides continuous operation without shutdown or operator intervention. The new hydraulic design removes air from the impeller eye while the pump is running, and the pump can be retrofitted into any existing operation.

**Applications**

For use in all froth pumping applications in the mineral processing and industrial minerals industries.



<http://shop.ksb.com/catalog/k0/en/product/ES000851>

## Self-priming pumps

### Etaprime L



DN	25 - 125
Q [m³/h]	≤ 180
H [m]	≤ 85
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +90
H <sub>geo</sub> [m]	≤ 9

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal self-priming volute casing pump, single-stage, with open multi-vane impeller, from size 40-40-140 with bearing bracket, in back pull-out design, ATEX-compliant version available.

#### Applications

Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000120>

### Etaprime B



DN	25 - 100
Q [m³/h]	≤ 130
H [m]	≤ 70
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +90
H <sub>geo</sub> [m]	≤ 9

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal self-priming volute casing pump, single-stage, with open multi-vane impeller, close-coupled; pump shaft and motor shaft rigidly connected; ATEX-compliant version available.

#### Applications

Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000119>

### EZ B/L



DN	25 - 50
Q [m³/h]	≤ 21
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -5 - ≤ +80
n [rpm]	≤ 1500

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Self-priming multistage liquid ring pump in close-coupled (EZ B) or long-coupled (EZ L) design, with mechanical seal.

#### Applications

Boiler feed, sanitary hot water, hydrophore systems for fresh or seawater and fresh water pre-heating.

### AU



DN	40 - 200
Q [m³/h]	≤ 600
H [m]	≤ 52
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +80

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal self-priming centrifugal pump, open or semi-open impeller, adjusted via wear plate, with mechanical seal, ATEX-compliant version available.

#### Applications

Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.



<http://shop.ksb.com/catalog/k0/en/product/ES000750>

### AU Monobloc



DN	40 - 50
Q [m³/h]	≤ 53
H [m]	≤ 37
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +80

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Horizontal self-priming centrifugal pump in close-coupled design, open or semi-open impeller, adjusted via wear plate, with mechanical seal, driven by electric motors or internal combustion engines; ATEX-compliant version available.

#### Applications

Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.



<http://shop.ksb.com/catalog/k0/en/product/ES000715>

## Submersible borehole pumps

### UPAchrom 100 CN



DN	100
Q [m <sup>3</sup> /h]	≤ 22
H [m]	≤ 300
T [°C]	≤ +30

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage centrifugal pump in shroud design made of stainless steel and plastic for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

#### Applications

Domestic water supply, general irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster systems and air-conditioning systems. UPAchrom 100 CN is also suitable for drinking water applications to ACS.



 Control unit, Cervomatic, UPA Control

<http://shop.ksb.com/catalog/k0/en/product/ES000003>

### UPAchrom 100 CC



DN	100
Q [m <sup>3</sup> /h]	≤ 18
H [m]	≤ 600
T [°C]	≤ +30

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage centrifugal pump in ring-section design made of stainless steel for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

#### Applications

Domestic water supply, general irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster systems and air-conditioning systems. UPAchrom 100 CC is also suitable for drinking water applications to ACS.



 Control unit, Cervomatic, UPA Control

<http://shop.ksb.com/catalog/k0/en/product/ES0000932>

### UPA 150C



DN	150
Q [m <sup>3</sup> /h]	≤ 79
H [m]	≤ 440
T [°C]	≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

All-stainless steel single-stage or multistage centrifugal pump in ring-section design for well diameters of 150 mm (6 inches) and above.

#### Applications

Spray irrigation systems, general irrigation systems, drawdown of groundwater levels, domestic water supply, fountains, heat pump systems, water supply systems



 PumpDrive, KSB UMA-S

<http://shop.ksb.com/catalog/k0/en/product/ES0000003>

### UPA 200, 200B, 250C



DN	200 - 250
Q [m <sup>3</sup> /h]	≤ 330
H [m]	≤ 460
T [°C]	≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch. For well diameters of 8 inches and above.

#### Applications

Pumping clean or slightly contaminated water in general water supply, spray irrigation and general irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems, emergency water supply, etc.



 PumpDrive, KSB UMA-S

<http://shop.ksb.com/catalog/k0/en/product/ES0000003>

### UPA 300, 350



DN	300 - 350
Q [m <sup>3</sup> /h]	≤ 840
H [m]	≤ 480
T [°C]	≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Mixed flow hydraulic systems with trimmable impellers. Optionally available with lift check valve or connection branch. For well diameters of 12 inches and above.

#### Applications

Pumping clean or slightly contaminated water in general water supply, spray irrigation and general irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems, emergency water supply, etc.



 PumpDrive, KSB UMA-S

<http://shop.ksb.com/catalog/k0/en/product/ES0000003>

## UPA 400-850



DN	> 350
Q [m³/h]	≤ 5000
H [m]	≤ 300
T [°C]	≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation.

### Applications

Pumping clean or slightly contaminated water, seawater, liquefied gases and oils in water supply, offshore and cavern applications and in groundwater management.

## UPA D



DN	> 350
Q [m³/h]	≤ 5000
H [m]	≤ 1500
T [°C]	≤ +50

Data for 50 Hz operation  
Also available for 60 Hz

### Description

Multistage double-entry centrifugal pump in ring-section design for vertical or horizontal installation.

### Applications

Pumping clean or slightly contaminated water, seawater, liquefied gases and oils in water supply, offshore and cavern applications and in groundwater management.

## Vertical turbine pumps

### B Pump



DN	80 - 500
Q [m³/h]	≤ 2600
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ -10 - ≤ +105
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

### Description

B Pumps are vertical turbine pumps conforming to AWWA E101-88 and designed with radially split interchangeable pump bowls, wear rings and impellers; column assembly with interchangeable column bearings and lengths of column pipes for variable depth settings.

### Applications

Pumping clean water in agriculture, collection and irrigation, public water supply, industry, fire-fighting systems



<http://shop.ksb.com/catalog/k0/en/product/ES000909>

## High-pressure pumps

### Comeo



Rp	1 - 1 1/4
Q [m³/h]	≤ 10,8
H [m]	≤ 79,5
p [bar]	≤ 10
T [°C]	≥ -10 - ≤ +60
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage horizontal centrifugal pump in close-coupled design

#### Applications

Water supply, small pressure booster systems, irrigation, cooling



● Frequency inverter

<http://shop.ksb.com/catalog/k0/en/product/ES000912>

### Movitec H(S)



Rp	1 1/4 - 2
Q [m³/h]	≤ 26,3
H [m]	≤ 195
p [bar]	≤ 25
T [°C]	≥ -20 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage horizontal high-pressure centrifugal pump with KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors.

#### Applications

Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000927>

### Movitec



Rp	1 - 2
DN	25 - 125
Q [m³/h]	≤ 160
H [m]	≤ 401
p [bar]	≤ 40
T [°C]	≥ -20 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage vertical high-pressure centrifugal pump in ring-section design with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design), close-coupled. With KSB SuPremE, a magnetless synchronous reluctance motor (exception: motor sizes 0.55 kW / 0.75 kW with 1500 rpm are designed with permanent magnets) of efficiency class IE4/IE5 to IEC TS 60034-30-2: 2016, for operation on a KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

#### Applications

Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000865>

### Movitec VCI



Rp	1 1/4 - 2
Q [m³/h]	≤ 22,5
H [m]	≤ 249
p [bar]	≤ 25
T [°C]	≥ -10 - ≤ +120
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Multistage vertical high-pressure immersion pump for installation on tanks or platforms.

#### Applications

Machine tools, industrial machine systems, condensate transport, paint shops.



● KSB SuPremE, PumpDrive

<http://shop.ksb.com/catalog/k0/en/product/ES000870>

## Multitec



DN	32 - 250
Q [m³/h]	≤ 1500
H [m]	≤ 1000
p [bar]	≤ 100
T [°C]	≥ -10 - ≤ +200
n [rpm]	≤ 3500

**Description**

Multistage horizontal or vertical centrifugal pump in ring-section design, long-coupled or close-coupled, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system. ATEX-compliant version available.

**Applications**

Water supply, drinking water supply, industry, pressure boosting, irrigation, power stations, heating systems, filtering systems, fire-fighting systems, reverse osmosis systems, snow-making systems and washing plants, and geothermal systems (re-injection of geothermal water into the aquifer).



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000214>

## Axially split pumps

## Omega



DN	80 - 350
Q [m³/h]	≤ 2880
H [m]	≤ 210
p [bar]	≤ 25
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 2900

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Single-stage axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, EN or ASME.

**Applications**

Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding, district heating or cooling.



● PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000071>

## RDLO



DN	350 - 690
Q [m³/h]	≤ 10000
H [m]	≤ 290
p [bar]	≤ 30
T [°C]	≥ 0 - ≤ +140
n [rpm]	≤ 1450

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Single-stage axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, EN or ASME.

**Applications**

Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding, district heating or cooling.



● PumpMeter, Frequency inverter

<http://shop.ksb.com/catalog/k0/en/product/ES000170>

## RDLP



DN	350 - 1200
Q [m³/h]	≤ 18000
H [m]	≤ 550
p [bar]	≤ 64
T [°C]	≥ 0 - ≤ +80
n [rpm]	≤ 1450

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Axially split volute casing pump for horizontal installation, with one, two or three stages and double-entry radial impeller, mating flanges to DIN, ISO or ANSI.

**Applications**

Pumping water with a low solids content, e.g. in waterworks and long-distance water supply.



● Frequency inverter

<http://shop.ksb.com/catalog/k0/en/product/ES000171>

## Hygienic pumps

### Vitachrom



DN	50 - 125
Q [m <sup>3</sup> /h]	≤ 340
H [m]	≤ 100
p [bar]	≤ 12
T [°C]	≥ -30 - ≤ +110

Data for 50 Hz operation  
Also available for 60 Hz

#### Description

Service-friendly non-self-priming single-stage hygienic close-coupled pump in back pull-out design with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. The pump features a semi-open impeller and electropolished surfaces. It is very easy to clean by CIP/SIP thanks to its almost complete lack of dead volume or narrow clearances. Its wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Vitachrom is EHEDG-certified. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.

#### Applications

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000030>

### Vitacast



DN	32 - 200
Q [m <sup>3</sup> /h]	≤ 540
H [m]	≤ 105
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz  
Other ratings possible on request

#### Description

Service-friendly volute casing pump with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface, excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.

#### Applications

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000785>

### Vitacast Bloc



DN	25 - 150
Q [m <sup>3</sup> /h]	≤ 340
H [m]	≤ 105
p [bar]	≤ 10
T [°C]	≥ -30 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz  
Other ratings possible on request

#### Description

Service-friendly volute casing pump with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface, excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

#### Applications

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.



● KSB SuPremE, PumpDrive, PumpMeter

<http://shop.ksb.com/catalog/k0/en/product/ES000785>

### Vitaprime



DN	40 - 80
Q [m <sup>3</sup> /h]	≤ 58
H [m]	≤ 45
p [bar]	≤ 10
T [°C]	≥ -20 - ≤ +100

Data for 50 Hz operation  
Also available for 60 Hz  
Other ratings possible on request

#### Description

Service-friendly close-coupled side channel pump (self-priming) with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible). All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.

#### Applications

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.



● KSB SuPremE, PumpDrive

<http://shop.ksb.com/catalog/k0/en/product/ES000787>



## Vitastage



Q [m³/h]	≤ 12,5
H [m]	≤ 150
p [bar]	≤ 16
T [°C]	≥ -20 - ≤ +140

Data for 50 Hz operation  
Also available for 60 Hz  
Other ratings possible on request

### Description

Multistage centrifugal pump in close-coupled design for vertical or horizontal installation. All wetted components are made of 1.4401/1.4408 (AISI 316/CF8M) stainless steel. Versatile, robust and especially energy-efficient. CIP/SIP-compatible. All materials comply with FDA standards and EN 1935/2004. Trolley also available among other accessories.

### Applications

Processes with hygienic requirements in the food and beverage industries and in the chemical industry.



<http://shop.ksb.com/catalog/k0/en/product/ES000788>

## Vitalobe



DN	25 - 200
Q [m³/h]	≤ 342
H [m]	≤ 200
p [bar]	≤ 20
T [°C]	≥ -40 - ≤ +180
Viscosity [cP]	≤ 200000

Data for 50 Hz operation  
Also available for 60 Hz  
Other ratings possible on request

### Description

Sturdy rotary lobe pump in hygienic design, bi-directional operation possible, horizontal or vertical orientation of connections. Hygienic design, highly CIP/SIP-compatible due to its almost complete lack of dead volume or narrow clearances. All wetted components made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel; various rotor types, shaft seals and process connections available. Installed as a pump set with gear unit and standardised motor. Vitalobe is EHEDG-certified. The pump elastomers comply with the FDA standards and EN 1935/2004. Accessories include a trolley, a heatable casing or casing cover and a pressure relief arrangement. An ATEX-compliant version is available.

### Applications

Hygienic and gentle handling of sensitive or high-viscosity fluids in the food, beverage and pharmaceutical industries, the chemical industry and general process engineering.



 KSB SuPremE, PumpDrive

<http://shop.ksb.com/catalog/k0/en/product/ES000847>

## Pumps for power station conventional islands

### CHTA / CHTC / CHTD



DN	100 - 700
Q [m³/h]	≤ 5700
H [m]	≤ 5400
p [bar]	≤ 560
T [°C]	≤ +270
n [rpm]	≤ 6750

Also available for 60 Hz  
Higher ratings possible on request

### Description

Horizontal high-pressure barrel-type pumps with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN and ANSI.

### Applications

Pumping feed water and condensate in power stations and industrial plants, generation of pressurised water for bark peeling and descaling units.



<http://shop.ksb.com/catalog/k0/en/product/ES000239>

### HGB / HGC / HGD



DN	40 - 400
Q [m³/h]	≤ 2300
H [m]	≤ 5300
p [bar]	≤ 560
T [°C]	≤ +210
n [rpm]	≤ 7000

Also available for 60 Hz  
Higher ratings possible on request

### Description

Horizontal radially split ring-section pump with radial impellers, single-entry or double-entry, multistage.

### Applications

Pumping feed water and condensate in power stations and industrial plants, pumping gas turbine fuels, generating pressurised water for bark peeling and descaling units, snow guns, etc.



<http://shop.ksb.com/catalog/k0/en/product/ES000233>

## HGI



DN	50 - 150
Q [m³/h]	≤ 410
H [m]	≤ 2000
p [bar]	≤ 200
T [°C]	≤ +180
n [rpm]	≤ 3600

Also available for 60 Hz

**Description**  
Horizontal radially split ring-section pump with radial impellers, single-entry, multistage.

**Applications**  
Pumping feed water and condensate in power stations and industrial plants.

## HGM



DN	25 - 125
Q [m³/h]	≤ 350
H [m]	≤ 1400
p [bar]	≤ 140
T [°C]	≤ +160
n [rpm]	≤ 3600

Also available for 60 Hz  
Higher ratings possible on request

**Description**  
Horizontal radially split product-lubricated multistage ring-section pump with radial impellers, axial and radial single-entry inlet.

**Applications**  
Pumping feed water in power stations, boiler feed systems and condensate transport in industrial plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000236>

## YNK



DN	125 - 600
Q [m³/h]	≤ 5200
H [m]	≤ 540
p [bar]	≤ 100
T [°C]	≤ +250
n [rpm]	≤ 3300

Higher ratings possible on request

**Description**  
Horizontal radially split single-stage double-entry boiler feed booster pump (booster system) with cast steel single or double volute casing.

**Applications**  
Pumping feed water in power stations and industrial plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000181>

## LUV / LUVA



DN	100 - 550
Q [m³/h]	≤ 7000
H [m]	≤ 300
p [bar]	≤ 400
T [°C]	≤ +425
n [rpm]	≤ 3600

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Vertical spherical casing pump, radial impellers, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to TRD, ASME or IBR.

**Applications**  
Hot water recirculation in forced-circulation, forced-flow and combined-circulation boilers for very high pressures and in solar power towers.



<http://shop.ksb.com/catalog/k0/en/product/ES000183>

## WKTB



DN	150 - 300
Q [m³/h]	≤ 1500
H [m]	≤ 370
p [bar]	≤ 40
T [°C]	≤ +140
n [rpm]	1500

Data for 50 Hz operation  
Also available for 60 Hz

**Description**  
Vertical can-type ring-section pump on base frame, multistage, first-stage impeller designed as a double-entry suction impeller, radial impellers. Flanges to DIN or ANSI.

**Applications**  
Pumping condensate in power stations and industrial plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000506>

## SEZ



Q [m³/h]	≤ 65000
H [m]	≤ 33
T [°C]	≤ +40
n [rpm]	≤ 990

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with open mixed flow impeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

**Applications**

Pumping raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000173>

## SEZT



Q [m³/h]	≤ 20000
H [m]	≤ 110
T [°C]	≤ +45
n [rpm]	≤ 990

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with open or closed mixed flow impeller

**Applications**

Handling seawater in seawater desalination plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000174>

## PHZ



Q [m³/h]	≤ 65000
H [m]	≤ 25
T [°C]	≤ +80
n [rpm]	≤ 990

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with mixed flow propeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

**Applications**

Raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000158>

## PNZ



Q [m³/h]	≤ 65000
H [m]	≤ 15
T [°C]	≤ +80
n [rpm]	≤ 990

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with axial propeller, pump intake with inlet nozzle or suction elbow, pull-out design available, discharge nozzle arranged above- or underfloor, flanges to DIN or ANSI standards available.

**Applications**

Raw water, pure water, service water and cooling water in industry, water supply systems, power stations and seawater desalination plants.



<http://shop.ksb.com/catalog/k0/en/product/ES000160>

## SNW



DN	350 - 800
Q [m³/h]	≤ 6500
H [m]	≤ 60
p [bar]	≤ 10
T [°C]	≤ +60
n [rpm]	≤ 1500

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with mixed flow impeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above- or underfloor.

**Applications**

Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply, cooling water.



<http://shop.ksb.com/catalog/k0/en/product/ES000176>

## PNW



DN	350 - 800
Q [m³/h]	≤ 9000
H [m]	≤ 10
p [bar]	≤ 10
T [°C]	≤ +60
n [rpm]	≤ 1500

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Vertical tubular casing pump with axial propeller, single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above or below floor level.

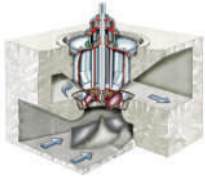
**Applications**

Irrigation and drainage, stormwater pumping stations, for raw water and pure water, water supply, cooling water.



<http://shop.ksb.com/catalog/k0/en/product/ES000163>

## Beveron



Q [m³/s]	≤ 30
H [m]	≤ 27

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Concrete volute casing pump with mixed flow impeller, single-stage, with zero-maintenance Residur bearings lubricated by the fluid handled.

**Applications**

Coast protection and flood control, irrigation and drainage, low-lift pumping stations, reservoir filling, cooling water, raw and pure water.



<http://shop.ksb.com/catalog/k0/en/product/ES000868>

## SPY



DN	350 - 1200
Q [m³/h]	≤ 21600
H [m]	≤ 50
p [bar]	≤ 10
T [°C]	≤ +105
n [rpm]	≤ 1480

Data for 50 Hz operation  
Also available for 60 Hz  
Higher ratings possible on request

**Description**

Long-coupled volute casing pump, single-stage, in back pull-out design.

**Applications**

Irrigation, drainage and water supply systems, for pumping condensate, cooling water, service water, etc.

## Pumps for nuclear power stations

## RER



DN	≤ 800
Q [m³/h]	≤ 40000
H [m]	≤ 140
p [bar]	≤ 175
T [°C]	≤ +350
n [rpm]	≤ 1800

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical single-stage reactor coolant pump with forged circular casing plated on the inside, with diffuser, either with integrated pump thrust bearing or shaft supported by motor bearing.

**Applications**

Reactor coolant recirculation in nuclear power stations.



<http://shop.ksb.com/catalog/k0/en/product/ES000144>

## RSR



DN	≤ 750
Q [m³/h]	≤ 24000
H [m]	≤ 215
p [bar]	≤ 175
T [°C]	≤ +350
n [rpm]	≤ 1800

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical single-stage reactor coolant pump with cast or forged casing, shaft supported by motor bearing.

**Applications**

Reactor coolant recirculation in nuclear power stations.



<http://shop.ksb.com/catalog/k0/en/product/ES000146>

## RUV



DN	≤ 650
Q [m³/h]	≤ 22000
H [m]	≤ 111
p [bar]	≤ 155
T [°C]	≤ +350
n [rpm]	≤ 1800

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical single-stage reactor coolant pump. Seal-less design with integrated wet rotor motor and integrated flywheel. Product-lubricated bearings, no oil supply systems required.

**Applications**

Reactor coolant recirculation in generation III+ nuclear power stations.



<http://shop.ksb.com/catalog/k0/en/product/ES000848>

## PSR



DN	≤ 600
Q [m³/h]	≤ 9000
H [m]	≤ 45
p [bar]	≤ 75
T [°C]	≤ +300
n [rpm]	≤ 2000

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical pump set integrated in the reactor containment floor, seal-less pump with leak-free, low-maintenance wet rotor motor.

**Applications**

Reactor coolant recirculation in boiling water reactors.



<http://shop.ksb.com/catalog/k0/en/product/ES000150>

## RHD



DN	125 - 500
Q [m³/h]	≤ 6500
H [m]	≤ 1000
p [bar]	≤ 150
T [°C]	≤ +210
n [rpm]	≤ 6500

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Horizontal single-stage double-entry main feed water pump MFWP, cast or forged variant.

**Applications**

Main feed water supply (MFW) in steam generation systems of nuclear power stations.



<http://shop.ksb.com/catalog/k0/en/product/ES000138>

## LUV Nuclear



DN	40 - 600
Q [m³/h]	≤ 7000
H [m]	≤ 300
p [bar]	≤ 320
T [°C]	≤ +430

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Vertical pump with integrated motor, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no oil supply systems required. Design to ASME Section 3, KTA, etc.

**Applications**

As reactor water clean-up pump in boiling water reactors, reactor coolant pump in boiling water and pressurised water reactors and recirculation pump in test facilities.



<http://shop.ksb.com/catalog/k0/en/product/ES000855>

## RHM



DN	≤ 150
Q [m³/h]	≤ 300
H [m]	≤ 2100
p [bar]	≤ 220
T [°C]	≤ +180
n [rpm]	≤ 8000

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Horizontal multistage barrel pull-out pump.

**Applications**

Core flooding, emergency cooling and residual heat removal systems, chemical and volume control systems, control rod drive systems, high-pressure and medium-pressure safety injection systems, emergency feed water systems, start-up and shutdown feed water systems, high-pressure charging.



<http://shop.ksb.com/catalog/k0/en/product/ES000245>

## RVM



DN	≤ 85
Q [m³/h]	≤ 50
H [m]	≤ 2000
p [bar]	≤ 200
T [°C]	≤ +100
n [rpm]	≤ 6000

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical multistage barrel pull-out pump.

**Applications**

Core flooding, emergency cooling and residual heat removal systems, chemical and volume control systems, high-pressure and medium-pressure safety injection systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000243>

## RHR



DN	≤ 500
Q [m³/h]	≤ 6000
H [m]	≤ 190
p [bar]	≤ 63
T [°C]	≤ +200
n [rpm]	≤ 3600

Available for 50 Hz and 60 Hz

**Description**

Horizontal circular casing pump with forged or cast pressure boundary and diffuser.

**Applications**

Core flooding, emergency cooling and residual heat removal systems, ancillary systems, acid feed system and low-pressure injection system, component cooling water systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000140>

## RVR



DN	≤ 500
Q [m³/h]	≤ 6000
H [m]	≤ 190
p [bar]	≤ 63
T [°C]	≤ +200
n [rpm]	≤ 3600

Available for 50 Hz and 60 Hz

**Description**

Vertical circular casing pump with forged or cast pressure boundary and diffuser.

**Applications**

Core flooding, emergency cooling and residual heat removal systems, ancillary systems, acid feed system and low-pressure injection system, component cooling water systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000142>

## RVT



DN	≤ 350
Q [m³/h]	≤ 1100
H [m]	≤ 131
p [bar]	≤ 30
T [°C]	≤ +160
n [rpm]	≤ 1485

Available for 50 Hz and 60 Hz  
Higher ratings possible on request

**Description**

Vertical multistage barrel pull-out pump with double-entry suction impeller and forged distributor casing.

**Applications**

Low-pressure injection systems, emergency feed water systems, emergency cooling and residual heat removal systems

## Pumps for desalination by reverse osmosis

## RPH-RO



DN	100 - 350
Q [m³/h]	≤ 2500
H [m]	≤ 110
p [bar]	≤ 80
T [°C]	≤ +40

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Horizontal radially split volute casing pump for dry installation, made of super-duplex stainless steel.

**Applications**

Booster pump for RO seawater desalination systems.



<http://shop.ksb.com/catalog/k0/en/product/ES000570>

## HGM-RO



DN	65 - 250
Q [m³/h]	≤ 1500
H [m]	≤ 950
p [bar]	≤ 120
T [°C]	≥ 0 - ≤ +40
n [rpm]	≤ 3600

Also available for 60 Hz

**Description**

Horizontal radially split product-lubricated multistage ring-section pump with radial impellers and plain bearings, axial and radial single-entry inlet. Duplex stainless steel variant or super duplex stainless steel variant, also suitable for chilled water applications.

**Applications**

High-pressure pump for RO seawater desalination systems


<http://shop.ksb.com/catalog/k0/en/product/ES000237>

## Multitec-RO



DN	50 - 150
Q [m³/h]	≤ 850
H [m]	≤ 1000
p [bar]	≤ 100
T [°C]	≥ -10 - ≤ +45
n [rpm]	≤ 3500

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Horizontal multistage centrifugal pump in ring-section design. Axial suction nozzle. Discharge nozzle can be turned in steps of 90°. Closed radial impellers. Made of duplex or superduplex stainless steel.

**Applications**

High-pressure pump for RO seawater desalination systems and geothermal systems (re-injection of geothermal water into the aquifer).

## Positive displacement pumps

## RC / RCV



DN	20 - 100
Q [m³/h]	≤ 78
H [m]	≤ 100
p [bar]	≤ 10
T [°C]	≥ +5 - ≤ +80
n [rpm]	≤ 1500

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Helical gear pump, self-priming, with bypass valve, close-coupled design, for horizontal installation with baseplate or vertical installation. With mechanical seal.

**Applications**

Fuel feed, handling fuel, lubricating oil and viscous fluids, lubrication systems.


<http://shop.ksb.com/catalog/k0/en/product/ES000744>

## Fire-fighting systems

## EDS



DN	32 - 300
Q [m³/h]	≤ 840
H [m]	≤ 140
p [bar]	≤ 16
T [°C]	≥ +5 - ≤ +50
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Automatic fire-fighting system consisting of a jockey pump and one or several duty pumps, with electric motor or diesel engine. Includes manifold, valves, accessories and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, etc.

**Applications**

Office buildings, hotels, industry, shopping malls, etc.

<http://shop.ksb.com/catalog/k0/en/product/ES000726>

## DU / EU



DN	32 - 350
Q [m³/h]	≤ 2500
H [m]	≤ 150
p [bar]	≤ 25
T [°C]	≥ +5 - ≤ +50
n [rpm]	≤ 3000

Data for 50 Hz operation  
Also available for 60 Hz

**Description**

Automatic fire-fighting system consisting of pumps with electric motor or diesel engine and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, FM, etc.

**Applications**

Office buildings, hotels, industry, shopping malls, etc.

<http://shop.ksb.com/catalog/k0/en/product/ES000727>



## Control units

### Controlmatic E



Number of pumps  
U [V]

≤ 1  
1~230

**Description**

Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

**Applications**

In water supply systems in combination with Multi Eco, Ixo, etc.



<http://shop.ksb.com/catalog/k0/en/product/ES000276>

### Controlmatic E.2



Number of pumps  
U [V]

≤ 1  
1~230

**Description**

Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

**Applications**

In water supply systems in combination with Multi Eco, Ixo, etc.



<http://shop.ksb.com/catalog/k0/en/product/ES000276>

### Cervomatic EDP.2



Number of pumps  
U [V]

≤ 1  
1~230 / 3~400

**Description**

Automatic control unit for pressure-controlled starting and either pressure-controlled or flow-controlled stopping and monitoring of a single pump.

**Applications**

In water supply systems with pumps of the Multi Eco, Ixo, etc. type series with single-phase or three-phase motors



<http://shop.ksb.com/catalog/k0/en/product/ES000275>

### LevelControl Basic 2



Number of pumps  
P [kW]  
U [V]

≤ 2  
≤ 22  
1~230 / 3~400

Available for higher ratings and other mains voltages on request.

**Description**

Level control unit for controlling and protecting either one or two pumps. DOL starting up to 4 kW, star-delta starting up to 22 kW. Higher ratings on request.

**Applications**

Tank drainage using float switches, digital switches, 4...20 mA, pneumatic (without compressor) or bubbler system in building services and waste water applications. Tank filling using float switches, digital switches or 4...20 mA signals in building services and water supply applications.



<http://shop.ksb.com/catalog/k0/en/product/ES000603>

### UPA Control



Number of pumps  
P [kW]  
U [V]

≤ 1  
3  
1~230 / 3~400

**Description**

The KSB switchgear is suitable for level control and protection of submersible borehole pumps, submersible motor pumps and dry-installed pumps with single-phase AC motors 1~ 230 V or three-phase motors 3~ 230 / 400 V / 50 Hz. The motor is started DOL. Enclosure: IP56, dimensions: 205 x 255 x 170 mm (H x W x D).

**Applications**

Irrigation and filling or draining tanks in water supply applications in combination with 4" and 6" pumps.



<http://shop.ksb.com/catalog/k0/en/product/ES000006>

## Hyatronic N



Number of pumps	≤ 6
P [kW]	22
U [V]	3-400
Available for higher ratings and other mains voltages on request.	

### Description

Pump control system in control cabinet for cascade starting and stopping of up to six pumps.

### Applications

For draining tanks and sumps in drainage and waste water disposal applications. For filling tanks in water supply applications. Level measurement using float switch or 4...20 mA sensor.



<http://shop.ksb.com/catalog/k0/en/product/ES000303>

## Monitoring and diagnosis

### Amacontrol II



Enclosure	IP20/IP54
T [°C]	≥ 0 - ≤ +40
Dimensions	
H × W × D [mm]	180 × 250 × 115
U [V]	AC 230

### Description

Monitoring system for submersible motor pumps, with tripping function.

### Amacontrol III



Connections	Spring-loaded terminals
Fastening	35 mm standard rail
T [°C]	≥ -30 - ≤ +70
Dimensions	
H × W × D [mm]	127,2 × 45 × 113,6
U [V]	AC 115-230 ± 10 %
U [V]	AC/DC 24 ± 10 %

### Description

Protection module for water and waste water products as all-in-one device for motor temperature measurement, bearing temperature measurement, leakage measurement, vibration measurement and voltage measurement, as well as diagnosing a pump, pump system or submersible mixer to ensure trouble-free and reliable operation.

### Applications

In water and waste water systems in combination with Amacan, Amamix, Amaprop, Amaline, Amarex KRT or Sewatec



<http://shop.ksb.com/catalog/k0/en/product/ES000946>